



KEMENTERIAN EKONOMI  
JABATAN PERANGKAAN MALAYSIA

**B//23**

# **BANCI EKONOMI** *ECONOMIC CENSUS* **2023**



**PERKHIDMATAN MAKLUMAT DAN KOMUNIKASI**  
*INFORMATION AND COMMUNICATION SERVICES*

**JABATAN PERANGKAAN MALAYSIA**  
*DEPARTMENT OF STATISTICS MALAYSIA*



**KEMENTERIAN EKONOMI  
JABATAN PERANGKAAN MALAYSIA**

**BANCI EKONOMI  
*ECONOMIC CENSUS***

**2023**

**PERKHIDMATAN MAKLUMAT DAN KOMUNIKASI  
*INFORMATION AND COMMUNICATION SERVICES***

**Pemakluman**

Jabatan Perangkaan Malaysia (DOSM) telah melancarkan OpenDOSM NextGen sebagai medium yang menyediakan katalog data dan visualisasi bagi memudahkan pengguna menganalisis pelbagai data dan boleh diakses melalui portal <https://open.dosm.gov.my>.

DOSM sedang menjalankan Banci Pertanian pada tahun 2024. Sila layari <https://www.myagricensus.gov.my/> untuk maklumat lanjut. Tema adalah “Banci Pertanian, Kunci Kemajuan Pertanian.”

Kerajaan Malaysia telah mengisytiharkan Hari Statistik Negara (MyStats Day) pada 20 Oktober setiap tahun. Tema sambutan MyStats Day adalah “**Statistik Nadi Kehidupan**”. DOSM menyambut ulang tahun ke 75 Jubli Intan pada tahun 2024.

**Announcement**

*The Department of Statistics Malaysia (DOSM) has launched OpenDOSM NextGen as a medium that provides a catalog of data and visualisations to facilitate users' analysis of various data and can be accessed through <https://open.dosm.gov.my>.*

*DOSM is conducting the Agricultural Census in 2024. Please visit <https://www.myagricensus.gov.my/> for more information. The theme is “Agriculture Census, Key to Agricultural Development.”*

*The Government of Malaysia has declared National Statistics Day (MyStats Day) on October 20<sup>th</sup> each year. MyStats Day theme is “**Statistics is the Essence of Life**”. DOSM commemorates its 75<sup>th</sup> Diamond Jubilee in 2024.*

Diterbitkan dan dicetak oleh / *Published and printed by:*

**Jabatan Perangkaan Malaysia**

***Department of Statistics Malaysia***

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Diterbitkan pada Ogos 2024 / *Published in August 2024*

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**ISBN 978-967-253-716-8**

# Kata Pengantar

Penerbitan Banci Ekonomi 2023 Perkhidmatan Maklumat dan Komunikasi ini memaparkan statistik utama sektor Perkhidmatan bagi tahun rujukan 2022. Ia merangkumi enam (6) aktiviti ekonomi iaitu aktiviti penerbitan; penerbitan wayang gambar, video dan program televisyen, rakaman bunyi & penerbitan muzik; pemrograman & penyiaran; perkhidmatan telekomunikasi; pengaturcaraan komputer, perundingan & aktiviti yang berkaitan dan perkhidmatan maklumat. Statistik ini diperoleh daripada Banci Ekonomi 2023 yang meliputi pertubuhan yang dikelaskan di bawah Seksyen J dalam Piawaian Klasifikasi Industri Malaysia (MSIC) 2008 Versi 1.0, selaras dengan *International Standard Industrial Classification of All Economic Activities (ISIC), Revision 4*. Kali terakhir banci ini dijalankan adalah pada tahun 2016 bagi tahun rujukan 2015.

Statistik utama yang berkaitan dengan bilangan pertubuhan, nilai output kasar, nilai input perantara, nilai ditambah, bilangan pekerja, gaji & upah dan nilai harta tetap mengikut aktiviti dilaporkan dalam penerbitan ini. Maklumat pekerja terperinci mengikut jantina, kategori, kemahiran, sijil tertinggi diperoleh dan kewarganegaraan turut dipaparkan. Selain itu, statistik utama lain seperti statistik pertubuhan milikan wanita turut dimuatkan dalam penerbitan ini. Statistik tersebut boleh digunakan oleh ahli ekonomi, ahli akademik, pihak swasta, individu dan agensi kerajaan bagi tujuan membuat perancangan dan penggubalan dasar, analisis ekonomi, unjuran dan dapat membantu merancang pembangunan perniagaan.

Penerbitan ini dibahagikan kepada empat (4) bahagian. Bahagian pertama memaparkan sorotan utama subsektor Perkhidmatan Maklumat dan Komunikasi diikuti bahagian kedua yang menerangkan ringkasan penemuan. Manakala, bahagian ketiga mengandungi jadual statistik terperinci dan bahagian seterusnya adalah berkaitan penerangan aspek teknikal seperti skop dan liputan, konsep dan definisi serta penjelasan berkaitan pembolehubah utama.

Jabatan Perangkaan Malaysia (DOSM) merakamkan setinggi-tinggi penghargaan atas kerjasama yang diberikan oleh responden dan juga semua pihak yang telah menyumbang secara langsung dan tidak langsung dalam menjayakan penerbitan ini. Setiap maklum balas dan cadangan untuk penambahbaikan laporan ini pada masa akan datang amatlah dihargai.

**DATO' SRI DR. MOHD UZIR MAHIDIN**

Ketua Perangkawan Malaysia

**Ogos 2024**

# Preface

*The Economic Census 2023 Information and Communication Services publication presents the principal statistics for the reference year 2022. It covers six (6) economic activities which are activities of publishing; motion picture, video and television programme production, sound recording & music publishing; programming & broadcasting; telecommunications services; computer programming, consultancy & related activities and information services. These statistics were obtained from the Economic Census 2023, which includes all establishments classified under the Malaysia Standard Industrial Classification (MSIC) 2008 Version 1.0 Section J, in accordance with the International Standard Industrial Classification of All Economic Activities (ISIC), Revision 4, 2008. The previous census was conducted in 2016, for the reference year 2015.*

*Principal statistics related to the number of establishments, value of gross output, value of intermediate input, value added, number of persons engaged, salaries & wages and value of fixed assets by activities are reported in this publication. Detailed employee information by sex, category, skills, highest certificate obtained and citizenship are also displayed. In addition, other key statistics, such as statistics on women-owned establishments, are also included in this publication. These statistics can be used by economists, academicians, private sectors, individuals, and government agencies for planning and policy formulations, economic analysis, projections, and to assist in business development planning.*

*This publication is divided into four (4) parts. The first part displays the main highlights of statistics for the overall Information and Communication Services, followed by the second part, which describes a summary of findings. Meanwhile, the third part provides detailed statistical tables, while the following part covers technical aspects, including scope and coverage, concepts and definitions, and explanations of key variables.*

*The Department of Statistics Malaysia (DOSM) gratefully acknowledges the cooperation of all parties who have provided the required statistics and contributed to the success of this publication. Every feedback and suggestion towards improving future publications is highly appreciated.*

**DATO' SRI DR. MOHD UZIR MAHIDIN**

*Chief Statistician Malaysia*

**August 2024**

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Bahagian | *Part*  
**1**

**Statistik Utama**  
*Main Statistics*

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**BANI EKONOMI 2023**  
 DATA PEMANGKIN EKONOMI NEGARA

# STATISTIK UTAMA

## PERKHIDMATAN MAKLUMAT DAN KOMUNIKASI

### Bilangan Pertubuhan

**2022: 18,903** pertubuhan  
 2015: 8,008 pertubuhan  
**CAGR: 13.1%**



### Nilai Output Kasar

**2022: RM190.1** bilion  
 2015: RM124.6 bilion  
**CAGR: 6.2%**



### Nilai Input Perantaraan

**2022: RM87.5** bilion  
 2015: RM62.0 bilion  
**CAGR: 5.0%**



### Nilai Ditambah

**2022: RM102.7** bilion  
 2015: RM62.6 bilion  
**CAGR: 7.3%**



### Bilangan Pekerja

**2022: 250,509** orang  
 2015: 203,017 orang  
**CAGR: 3.0%**



### Gaji & Upah

**2022: RM19.3** bilion  
 2015: RM11.7 bilion  
**CAGR: 7.5%**



### Nilai Harta Tetap

**2022: RM114.0** bilion  
 2015: RM82.8 bilion  
**CAGR: 4.7%**



### Bilangan Pertubuhan Milikan Wanita

**2022: 1,739** pertubuhan  
 2015: 252 pertubuhan  
**CAGR: 31.8%**



## NILAI DITAMBAH TERTINGGI

### MENGIKUT AKTIVITI

**Perkhidmatan telekomunikasi**  
**RM70.0** bilion  
**CAGR: 9.0%**  
 2015: RM38.3 bilion



**Pengaturcaraan komputer, perundingan dan aktiviti yang berkaitan**  
**RM19.1** bilion  
**CAGR: 4.2%**  
 2015: RM14.3 bilion



**Perkhidmatan maklumat**  
**RM4.8** bilion  
**CAGR: 8.7%**  
 2015: RM2.7 bilion



### MENGIKUT NEGERI

W.P. Kuala Lumpur



**RM68.5** bilion  
**CAGR: 7.5%**  
 2015: RM41.3 bilion

Selangor



**RM30.0** bilion  
**CAGR: 7.2%**  
 2015: RM18.4 bilion

Pulau Pinang



**RM2.5** bilion  
**CAGR: 6.1%**  
 2015: RM1.7 bilion





# MAIN STATISTICS

## INFORMATION AND COMMUNICATION SERVICES


### Number of Establishments

**2022: 18,903** establishments  
 2015: 8,008 establishments  
**CAGR: 13.1%**




### Value of Gross Output

**2022: RM190.1** billion  
 2015: RM124.6 billion  
**CAGR: 6.2%**



### Value of Intermediate Input

**2022: RM87.5** billion  
 2015: RM62.0 billion  
**CAGR: 5.0%**



### Value Added

**2022: RM102.7** billion  
 2015: RM62.6 billion  
**CAGR: 7.3%**



### Number of Persons Engaged

**2022: 250,509** persons  
 2015: 203,017 persons  
**CAGR: 3.0%**



### Salaries & Wages

**2022: RM19.3** billion  
 2015: RM11.7 billion  
**CAGR: 7.5%**




### Value of Fixed Assets

**2022: RM114.0** billion  
 2015: RM82.8 billion  
**CAGR: 4.7%**



### Number of Women-owned Establishments


**2022: 1,739** establishments  
 2015: 252 establishments  
**CAGR: 31.8%**



## HIGHEST VALUE ADDED

### BY ACTIVITY


**Telecommunications services**  
**RM70.0** billion  
 2015: RM38.3 billion  
**CAGR: 9.0%**




**Computer programming, consultancy and related activities**  
**RM19.1** billion  
 2015: RM14.3 billion  
**CAGR: 4.2%**



**Information services**  
**RM4.8** billion  
 2015: RM2.7 billion  
**CAGR: 8.7%**



### BY STATE

W.P. Kuala Lumpur  

**RM68.5** billion  
 2015: RM41.3 billion  
**CAGR: 7.5%**

Selangor  

**RM30.0** billion  
 2015: RM18.4 billion  
**CAGR: 7.2%**

Pulau Pinang  

**RM2.5** billion  
 2015: RM1.7 billion  
**CAGR: 6.1%**



Bahagian | *Part*  
**2**

**Ringkasan Penemuan**  
*Summary of Findings*



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## 1. PENGENALAN

Penerbitan ini membentangkan statistik bagi Perkhidmatan Maklumat dan Komunikasi berdasarkan Banci Ekonomi 2023 tahun rujukan 2022. Perkhidmatan maklumat dan komunikasi merangkumi aktiviti penerbitan; penerbitan wayang gambar, video & program televisyen, rakaman bunyi & penerbitan muzik; pemrograman & penyiaran; Perkhidmatan telekomunikasi; pengaturcaraan komputer, perundingan & aktiviti yang berkaitan dan perkhidmatan maklumat.

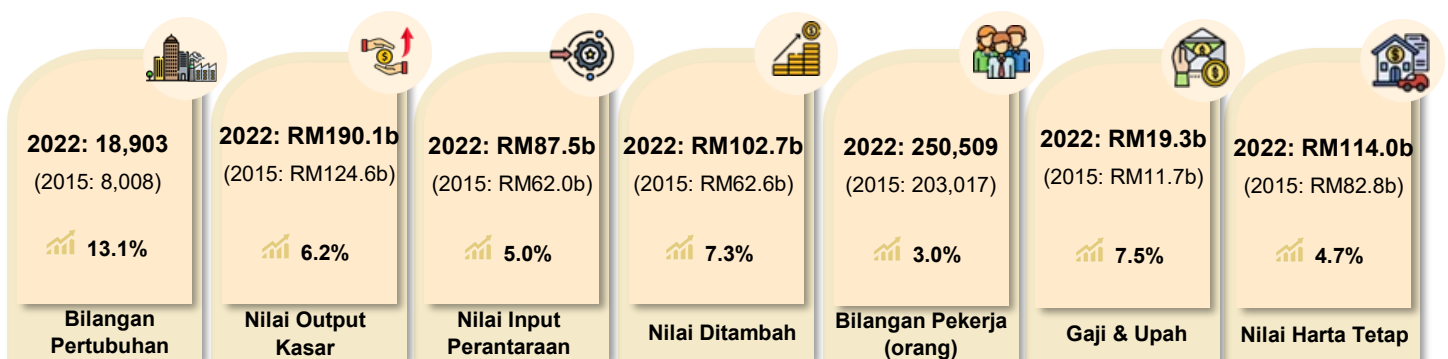
## 2. PRESTASI PERKHIDMATAN MAKLUMAT DAN KOMUNIKASI

Secara keseluruhan, statistik utama Perkhidmatan Maklumat dan Komunikasi pada tahun 2022 menunjukkan kadar pertumbuhan tahunan positif berbanding 2015. Pada tahun 2022, bilangan pertubuhan yang beroperasi dalam subsektor ini adalah 18,903 pertubuhan dengan merekodkan kadar pertumbuhan tahunan sebanyak 13.1 peratus berbanding 2015 (8,008 pertubuhan).

Output kasar pada tahun 2022 berjumlah RM190.1 bilion, meningkat sebanyak RM65.5 bilion dengan kadar pertumbuhan tahunan 6.2 peratus berbanding 2015. Selari dengan pertumbuhan output kasar, input perantaraan turut meningkat sebanyak RM25.5 bilion untuk mencatatkan RM87.5 bilion dengan kadar pertumbuhan tahunan 5.0 peratus. Ini menghasilkan nilai ditambah sebanyak RM102.7 bilion pada tahun 2022 (2015: RM62.6 bilion).

Bilangan pekerja adalah seramai 250,509 orang pekerja terlibat dalam subsektor ini berbanding 203,017 orang pada 2015 dengan kadar pertumbuhan tahunan 3.0 peratus. Sejalan dengan peningkatan ini, jumlah gaji & upah meningkat 7.5 peratus kepada RM19.3 bilion pada tahun 2022 (2015: RM11.7 bilion). Sementara itu, harta tetap yang dimiliki oleh pertubuhan dalam Perkhidmatan Maklumat dan Komunikasi pada tahun 2022 adalah RM114.0 bilion (2015: RM82.8 bilion), dengan kadar pertumbuhan tahunan sebanyak 4.7 peratus (**Paparan 1**).

**Paparan 1: Statistik Utama Perkhidmatan Maklumat dan Komunikasi, 2015 dan 2022**

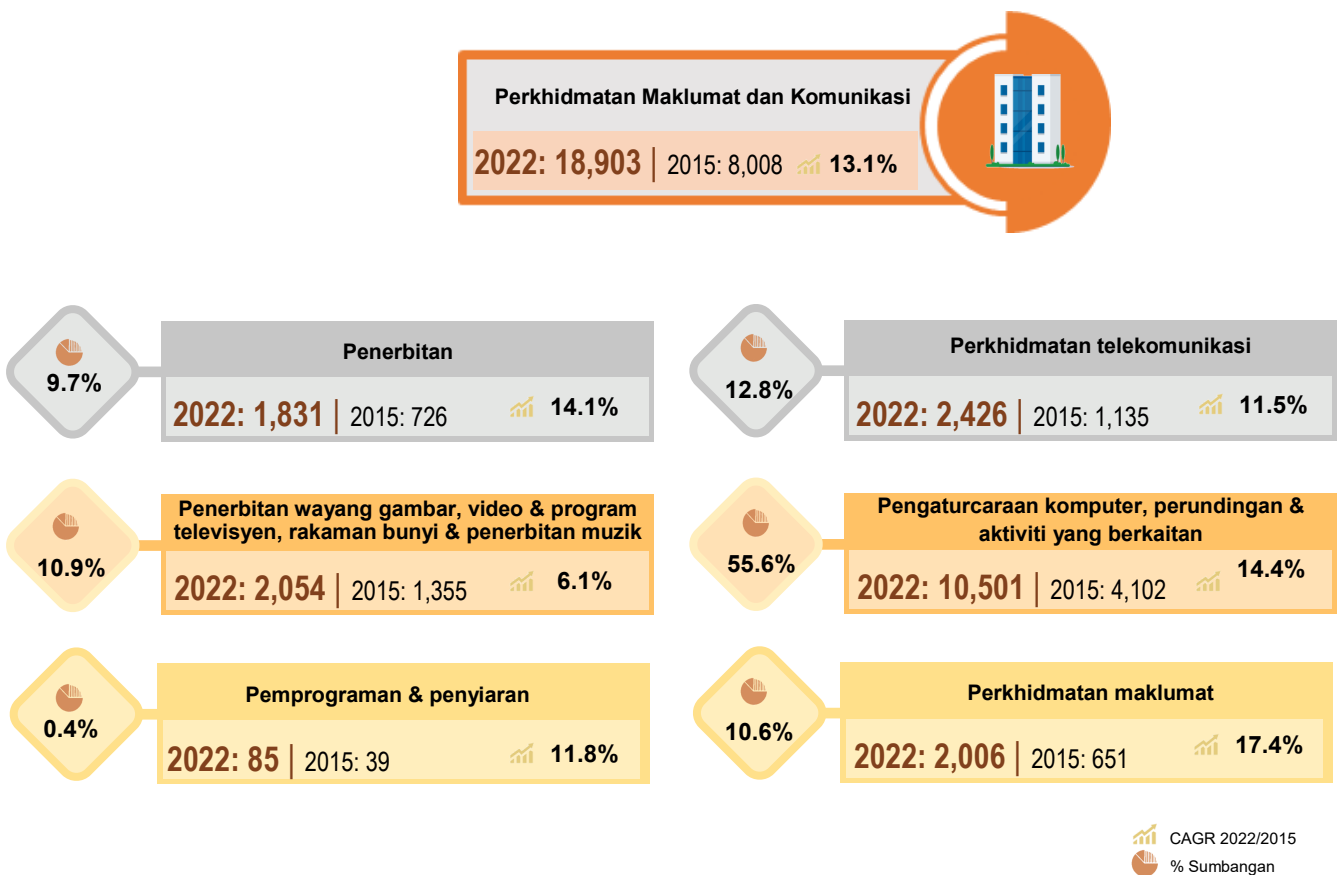


CAGR 2022/2015

**3. BILANGAN PERTUBUHAN**

Pada tahun 2022, sejumlah 18,903 pertubuhan beroperasi dalam Perkhidmatan Maklumat dan Komunikasi berbanding 8,008 pertubuhan pada tahun 2015 dengan pertambahan 10,895 pertubuhan dengan kadar pertumbuhan tahunan dikompaun bagi perkhidmatan ini sebanyak 13.1 peratus. Aktiviti pengaturcaraan komputer, perundingan dan aktiviti yang berkaitan mencatatkan bilangan pertubuhan tertinggi sebanyak 10,501 pertubuhan dengan sumbangan 55.6 peratus (**Paparan 2**). Ini diikuti oleh aktiviti Perkhidmatan telekomunikasi (2,426 pertubuhan; sumbangan: 12.8%) dan penerbitan wayang gambar, video dan program televisyen, rakaman bunyi dan penerbitan muzik (2,054 pertubuhan; sumbangan: 10.9%).

**Paparan 2: Bilangan Pertubuhan Perkhidmatan Maklumat dan Komunikasi Mengikut Aktiviti, 2015 dan 2022**

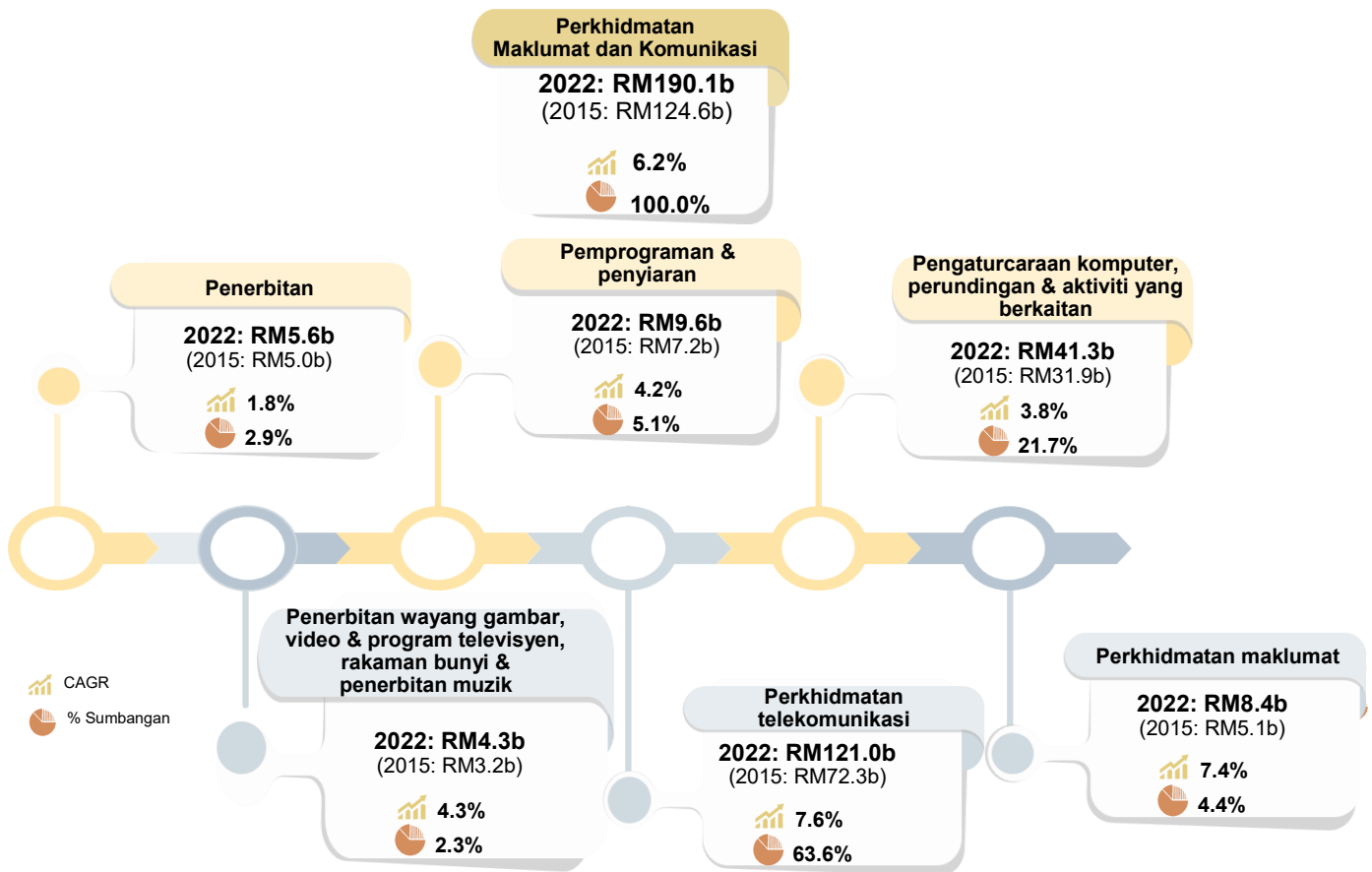


## 4. NILAI OUTPUT KASAR

Sektor Perkhidmatan Maklumat dan Komunikasi mengalami pertumbuhan yang ketara, menghasilkan output kasar sebanyak RM190.1 bilion pada 2022, meningkat daripada RM124.6 bilion pada 2015 dengan kadar pertumbuhan tahunan sebanyak 6.2 peratus. Perkhidmatan telekomunikasi merupakan penyumbang utama pertumbuhan ini, meningkat 7.6 peratus kepada RM121.0 bilion, berbanding RM72.3 bilion pada 2015. Selain itu, perkhidmatan maklumat mencatatkan kadar pertumbuhan tahunan yang signifikan sebanyak 7.4 peratus, bagi mencapai RM8.4 bilion pada 2022.

Perkhidmatan telekomunikasi menyumbang 63.6 peratus daripada jumlah output kasar Perkhidmatan ini. Ini diikuti pengaturcaraan komputer, perundingan dan aktiviti yang berkaitan dengan sumbangan 21.7 peratus. Kedua-dua aktiviti ini menyumbang 85.3 peratus daripada jumlah output kasar Perkhidmatan Maklumat dan Komunikasi, menunjukkan kepentingannya dalam menjana pertumbuhan dan menyumbang kepada ekonomi Malaysia (**Paparan 3**). Peningkatan ini turut menterjemahkan transisi landskap ekonomi negara kearah ekonomi digital dan bernilai tinggi.

**Paparan 3: Nilai Output Kasar bagi Perkhidmatan Maklumat dan Komunikasi mengikut Aktiviti, 2015 dan 2022**

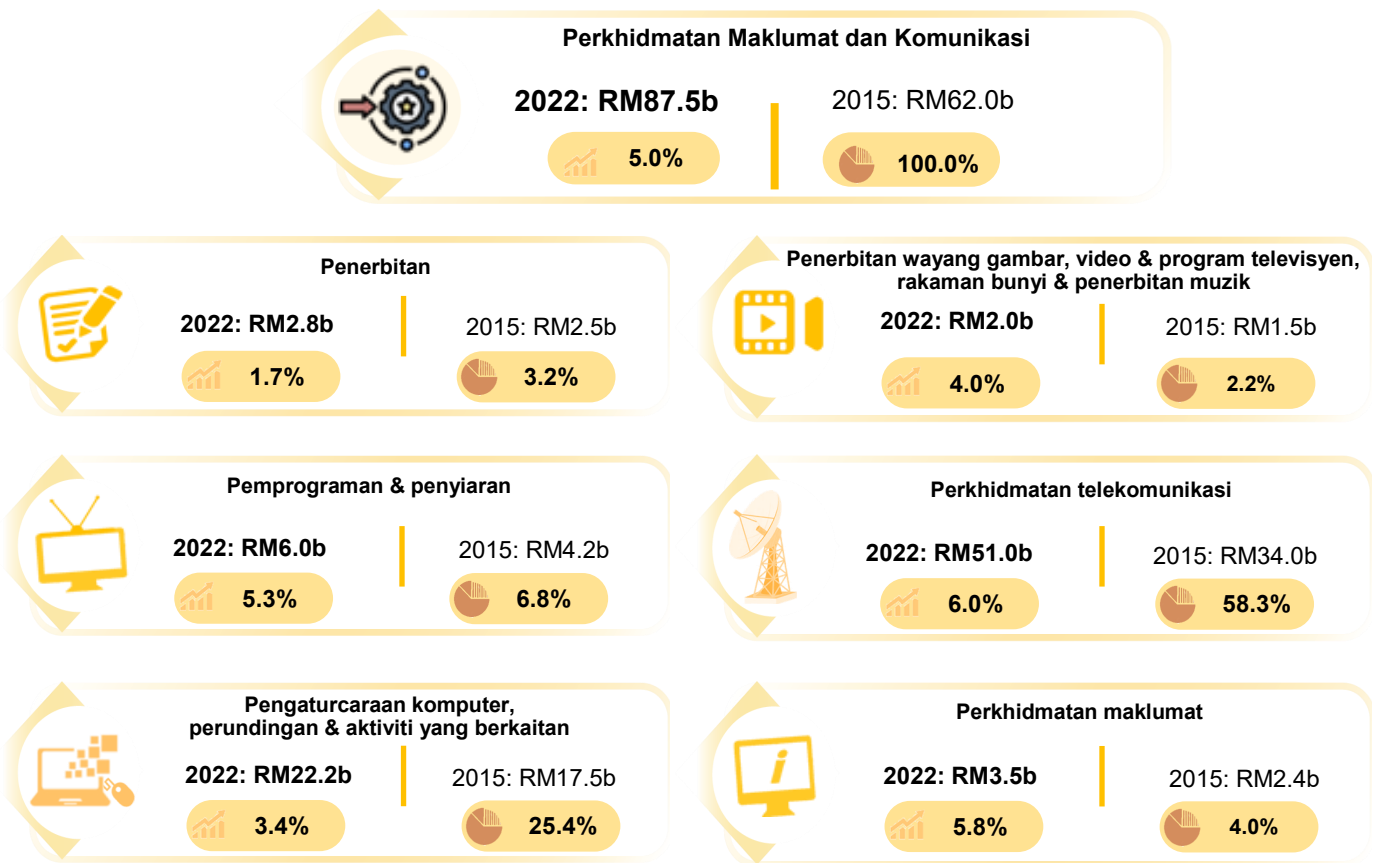




**5. NILAI INPUT PERANTARAAN**

Input perantaraan dalam Perkhidmatan Maklumat dan Komunikasi meningkat sebanyak 5.0 peratus pada 2022 kepada RM87.5 bilion, daripada RM62.0 bilion pada 2015. Peningkatan ini sebahagian besarnya disumbangkan oleh perkhidmatan telekomunikasi yang berkembang sebanyak 6.0 peratus kepada RM51.0 bilion berbanding RM34.0 bilion pada 2015. Selain itu, aktiviti pengaturcaraan komputer, perundingan dan aktiviti berkaitan juga bertumbuh 3.4 peratus setahun bagi mencapai RM22.2 bilion pada tahun 2022.

Perkhidmatan telekomunikasi menyumbang 58.3 peratus kepada jumlah keseluruhan input perantaraan, diikuti oleh aktiviti pengaturcaraan komputer, perundingan dan aktiviti berkaitan dengan 25.4 peratus. Kedua-dua perkhidmatan ini menyumbang sebanyak 83.7 peratus daripada jumlah input perantaraan dalam Perkhidmatan Maklumat dan Komunikasi (**Paparan 4**).

**Paparan 4: Nilai Input Perantaraan bagi Perkhidmatan Maklumat dan Komunikasi mengikut Aktiviti, 2015 dan 2022**



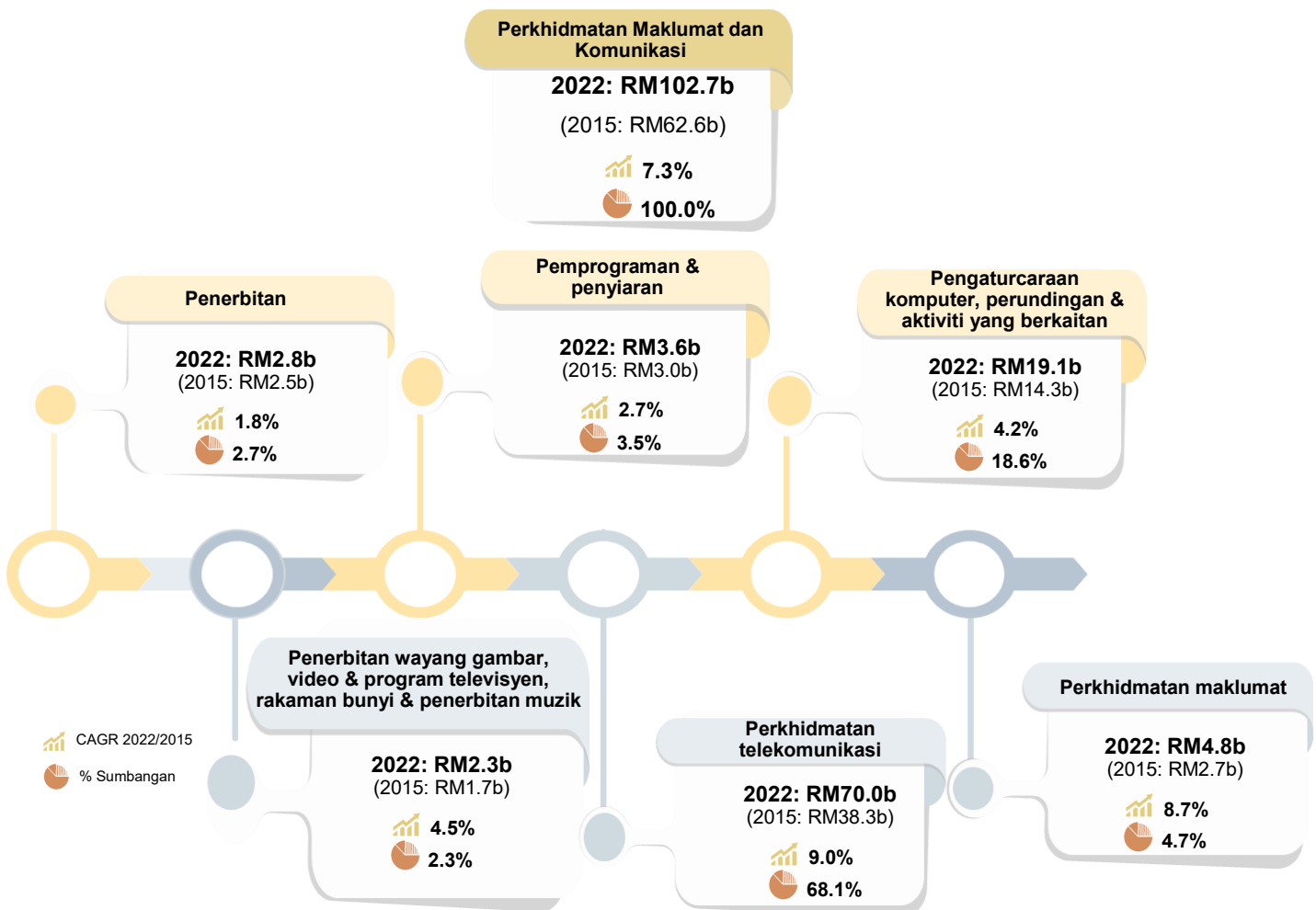
 CAGR 2022/2015  
 % Sumbangan

## 6. NILAI DITAMBAH

Sektor Perkhidmatan Maklumat dan Komunikasi di Malaysia mengalami pertumbuhan yang kukuh, dengan output kasar mencapai RM190.1 bilion. Peningkatan ini menunjukkan permintaan yang semakin meningkat dalam perkhidmatan ini, yang mendorong permintaan untuk input perantara berjumlah RM87.5 bilion. Nilai ditambah bagi Perkhidmatan ini berjumlah RM102.7 bilion (2015: RM62.6 bilion) dengan kadar pertumbuhan tahunan 7.3 peratus. Pertumbuhan ini disumbangkan oleh Perkhidmatan telekomunikasi yang merekodkan kadar pertumbuhan tahunan 9.0 peratus kepada RM70.0 bilion berbanding RM38.3 bilion pada 2015. Ini diikuti oleh aktiviti pengaturcaraan komputer, perundingan & aktiviti yang berkaitan dengan pertumbuhan tahunan signifikan sebanyak 4.2 peratus bagi mencatatkan RM19.1 bilion pada 2022 (**Paparan 5**).

Perkhidmatan telekomunikasi merekodkan nilai ditambah tertinggi berjumlah RM70.0 bilion dengan peratus sumbangan 68.1 peratus (2015: RM38.3 bilion). Ini diikuti oleh pengaturcaraan komputer, perundingan & aktiviti yang berkaitan (RM4.8 bilion; sumbangan: 4.7%).

**Paparan 5: Nilai Ditambah bagi Perkhidmatan Maklumat dan Komunikasi mengikut Aktiviti, 2015 dan 2022**

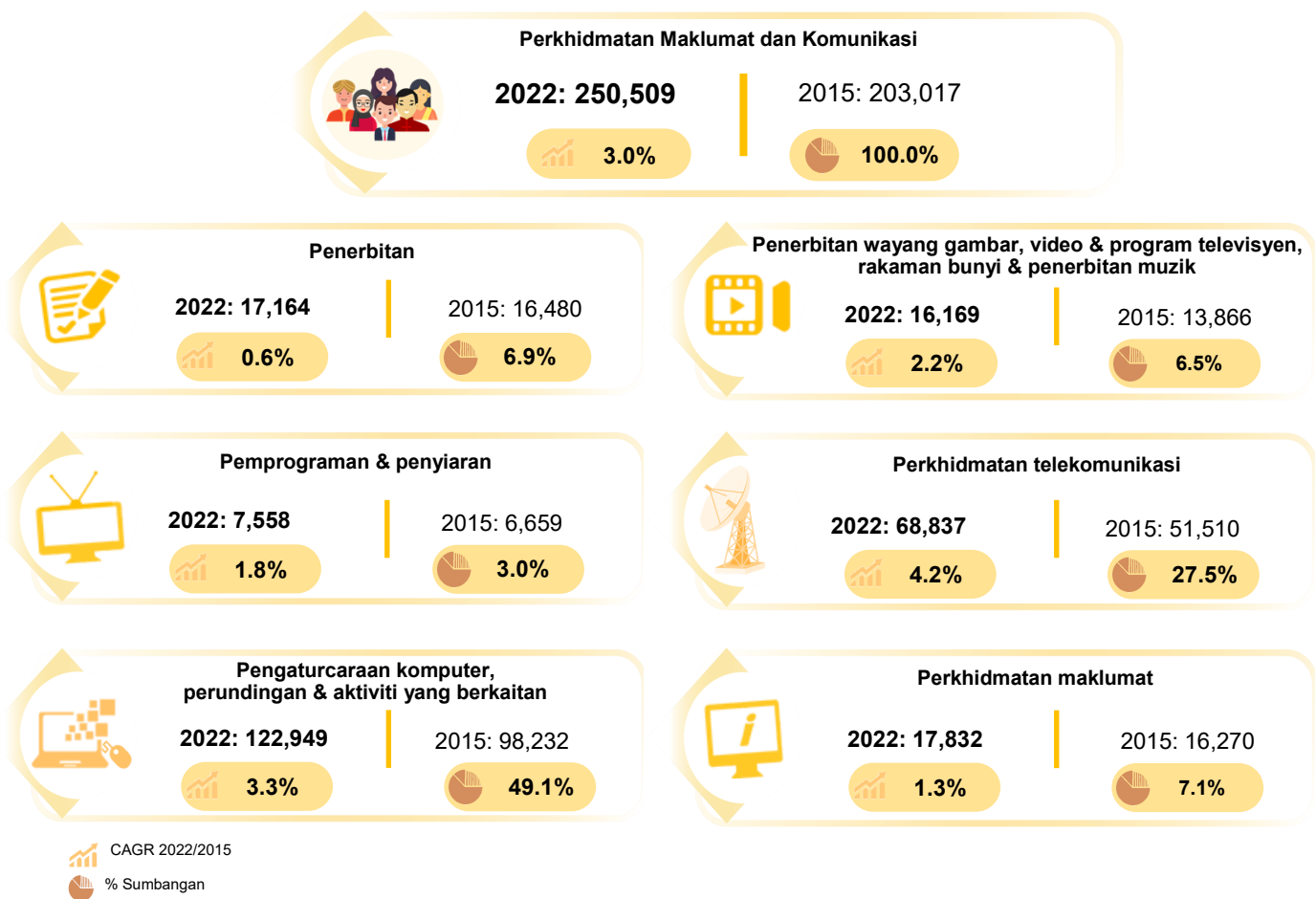




**7. BILANGAN PEKERJA**

Perkhidmatan Maklumat dan Komunikasi merekodkan bilangan pekerja seramai 250,509 orang pada 2022 berbanding 203,017 orang pada tahun 2015, dengan pertumbuhan tahunan 3.0 peratus. Aktiviti pengaturcaraan komputer, perundingan & aktiviti yang berkaitan merekodkan bilangan pekerja tertinggi iaitu 122,949 orang dengan sumbangan 49.1 peratus. Ini diikuti oleh perkhidmatan telekomunikasi (68,837 orang; sumbangan: 27.5%) dan aktiviti perkhidmatan maklumat (17,832 orang; sumbangan: 7.1%) seperti ditunjukkan di **Paparan 6**.

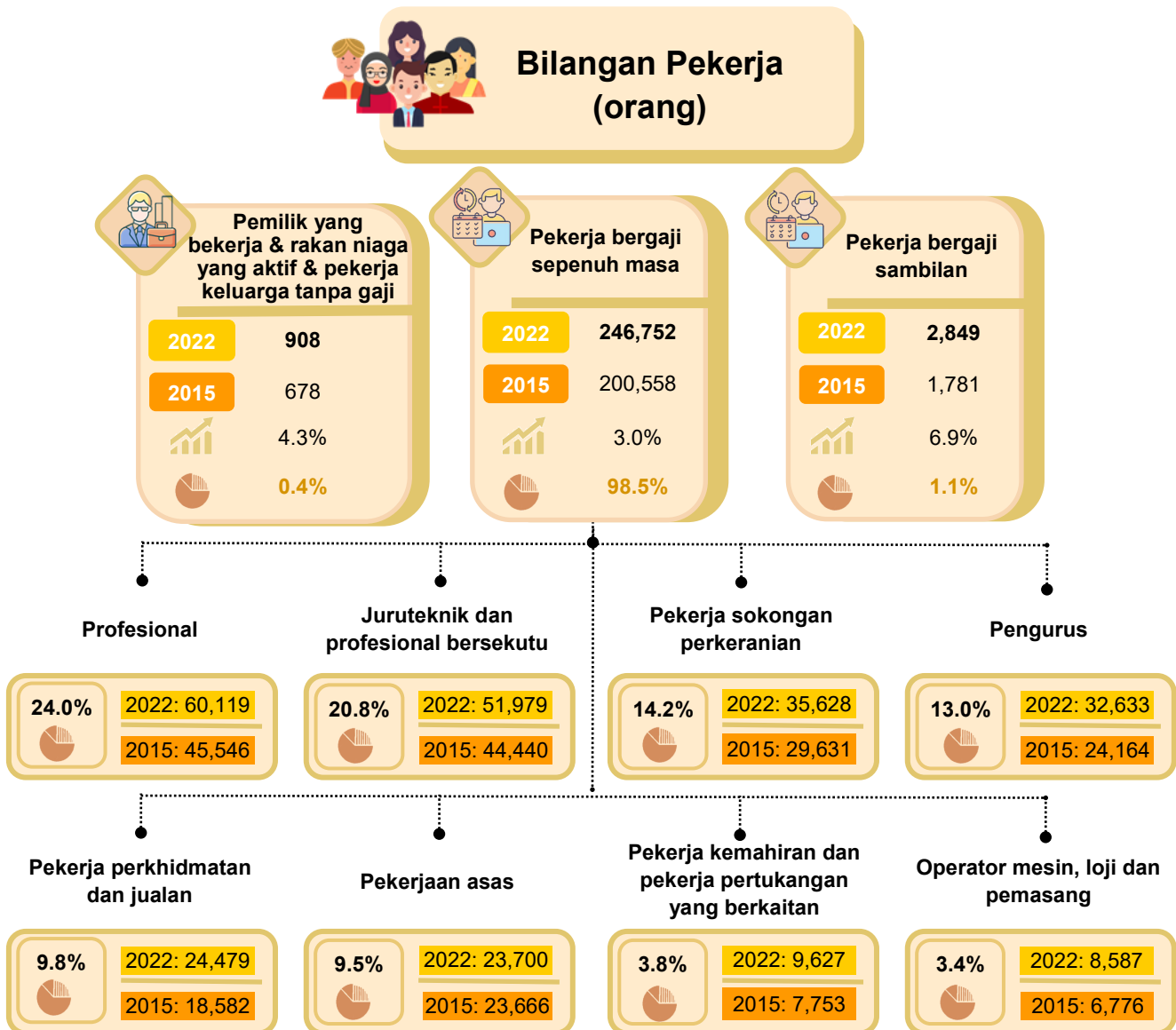
**Paparan 6: Bilangan Pekerja bagi Perkhidmatan Maklumat dan Komunikasi, 2015 dan 2022**



7.1 BILANGAN PEKERJA MENGIKUT KATEGORI PEKERJA

Secara keseluruhan, Perkhidmatan Maklumat dan Komunikasi didominasi oleh pekerja bergaji sepenuh masa, merekodkan seramai 246,752 orang dengan sumbangan 98.5 peratus (2015: 200,558 orang). Ini diikuti oleh pekerja bergaji sambilan yang mewakili 1.1 peratus atau 2,849 orang. Selebihnya ialah pemilik yang bekerja dan pekerja keluarga tanpa gaji (908 orang; sumbangan: 0.4%). Bagi pekerja bergaji sepenuh masa, kategori Profesional merekodkan bilangan pekerja yang tertinggi iaitu 60,119 orang (sumbangan: 24.0%), diikuti oleh juruteknik dan profesional bersekutu (51,979 orang; sumbangan: 20.8%) dan pekerja sokongan perkeranian (35,628 orang; sumbangan: 14.2%).

Paparan 7: Bilangan Pekerja bagi Perkhidmatan Maklumat dan Komunikasi mengikut Kategori Pekerja, 2015 dan 2022



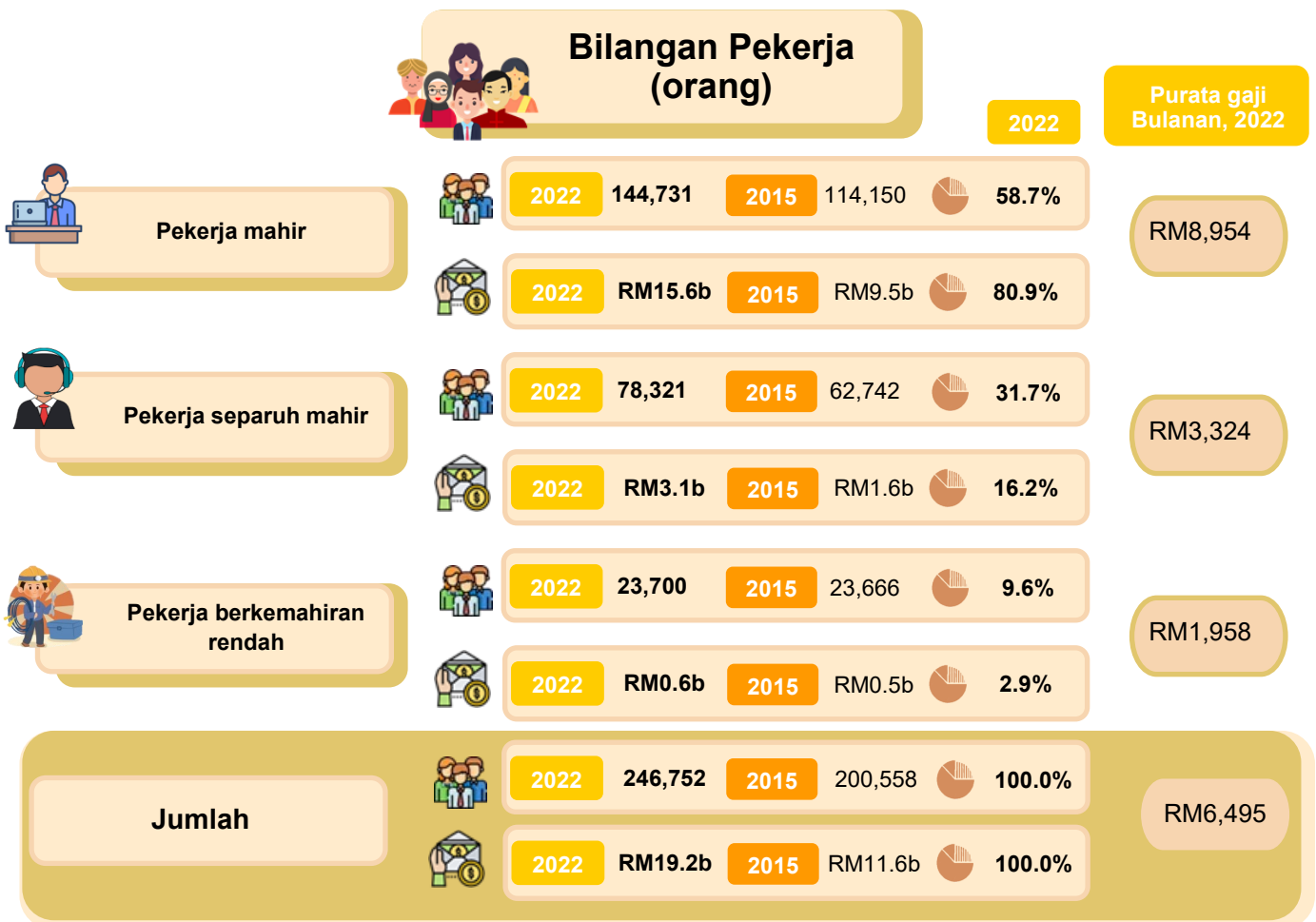
CAGR 2022/2015  
% Sumbangan


**7.2 BILANGAN PEKERJA MENGIKUT KATEGORI KEMAHIRAN**

Pekerja mahir mendominasi lanskap pekerjaan dalam Perkhidmatan Maklumat dan Komunikasi, menyumbang 58.7 peratus daripada jumlah keseluruhan 246,752 orang pekerja pada 2022. Seterusnya adalah pekerja separuh mahir yang merangkumi 31.7 peratus dengan 78,231 orang, manakala pekerja berkemahiran rendah pula mewakili 9.6 peratus dengan 23,700 orang. Dari segi gaji & upah, pekerja mahir mendahului dengan RM15.6 bilion (sumbangan: 80.9%), diikuti oleh pekerja separuh mahir dengan RM3.1 bilion (sumbangan: 16.2%) dan pekerja berkemahiran rendah dengan RM0.6 bilion (sumbangan: 2.9%).

Pekerja mahir merekodkan purata gaji bulanan sebanyak RM8,954 manakala pekerja separuh mahir dan pekerja berkemahiran rendah masing-masing menerima purata gaji bulanan RM3,324 dan RM1,958 seperti yang ditunjukkan di **Paparan 8**.

**Paparan 8: Bilangan Pekerja bagi Perkhidmatan Maklumat dan Komunikasi mengikut Kategori Kemahiran, 2015 dan 2022**



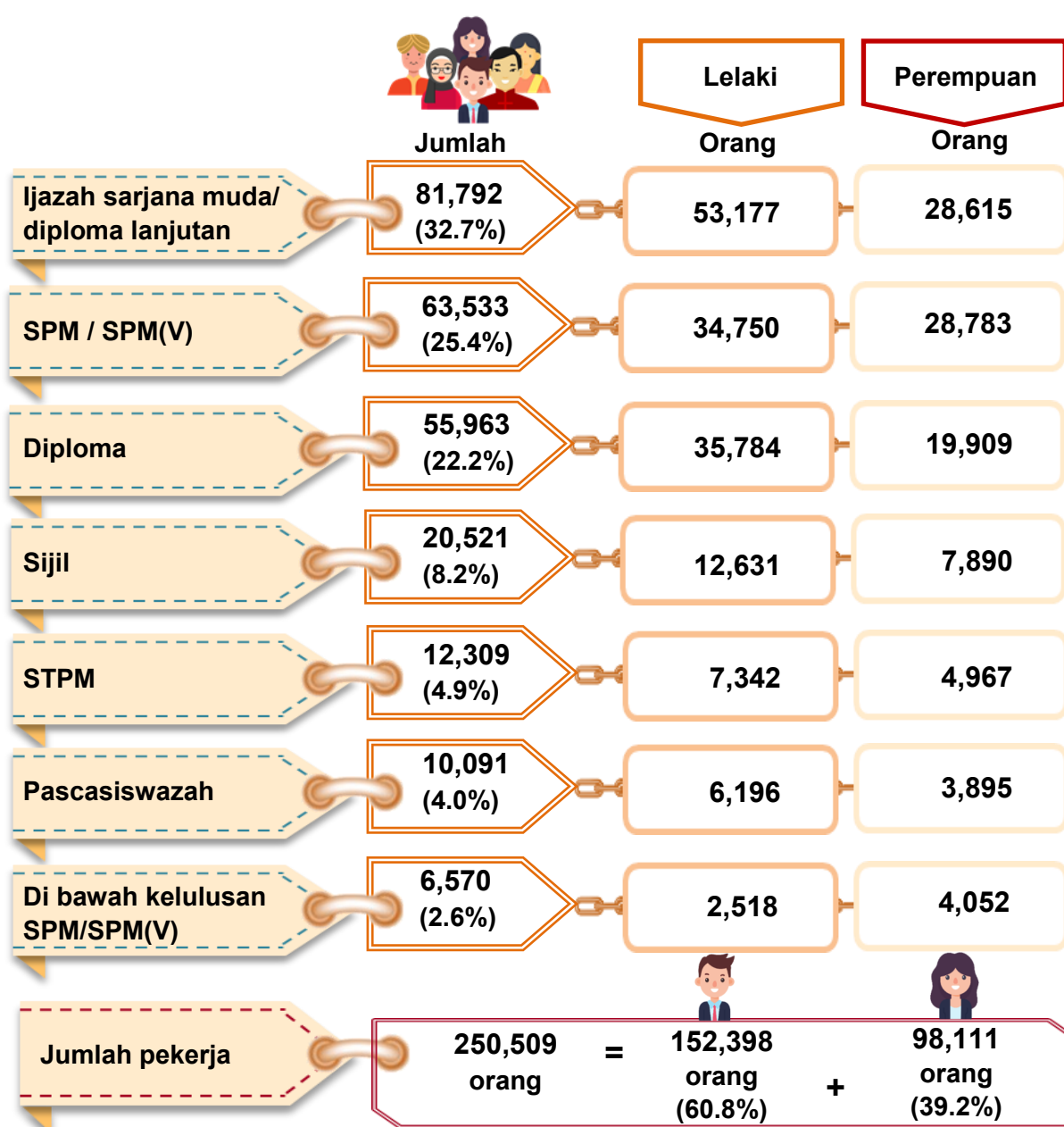
 % Sumbangan

## 7.3 BILANGAN PEKERJA MENGIKUT SIJIL TERTINGGI DIPEROLEH

Majoriti pekerja dalam Perkhidmatan Maklumat dan Komunikasi memiliki kelayakan Ijazah sarjana muda/diploma lanjutan, berjumlah 81,792 orang atau 32.7 peratus daripada jumlah keseluruhan pekerja dalam perkhidmatan ini (2015: 69,041 orang). Ini diikuti SPM/ SPM (V) dengan 63,533 orang (sumbangan: 25.4%) dan Diploma 55,963 orang dengan sumbangan 22.2 peratus (2015: 43,475 orang) seperti yang ditunjukkan dalam **Paparan 9**.

Dari segi jantina, lelaki merupakan penyumbang terbesar yang mewakili 60.8 peratus atau 152,398 orang, manakala wanita menyumbang sebanyak 39.2 peratus dengan 98,111 orang.

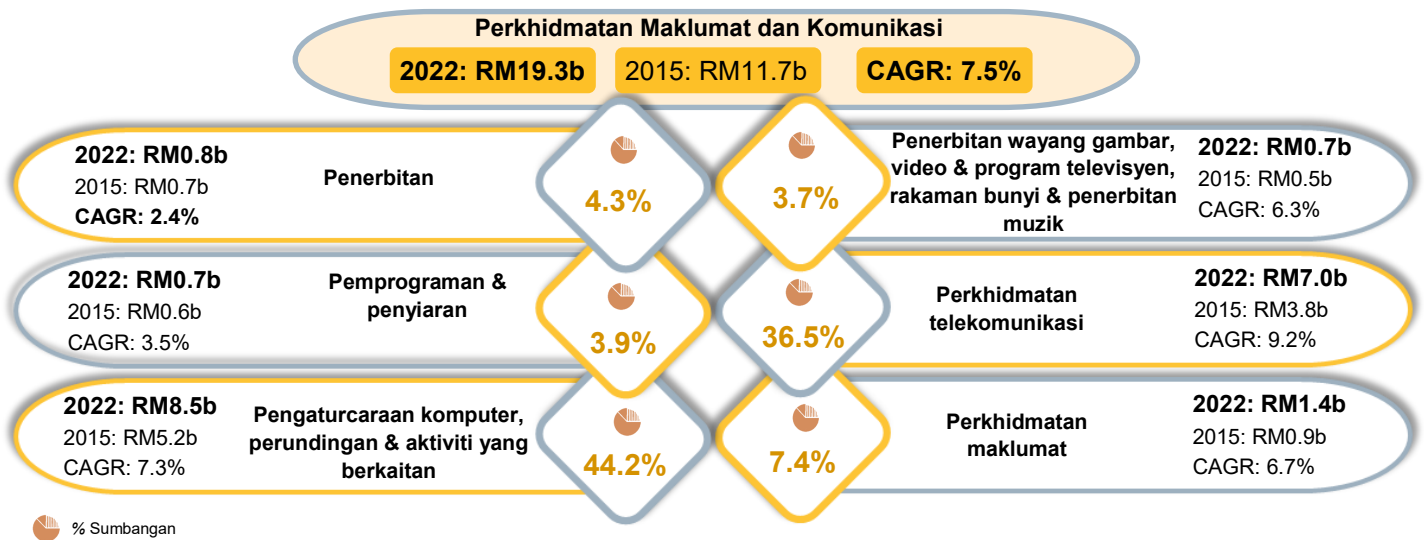
**Paparan 9: Sijil Tertinggi Diperoleh Pekerja bagi Perkhidmatan Maklumat dan Komunikasi, 2022**



**8. GAJI & UPAH**

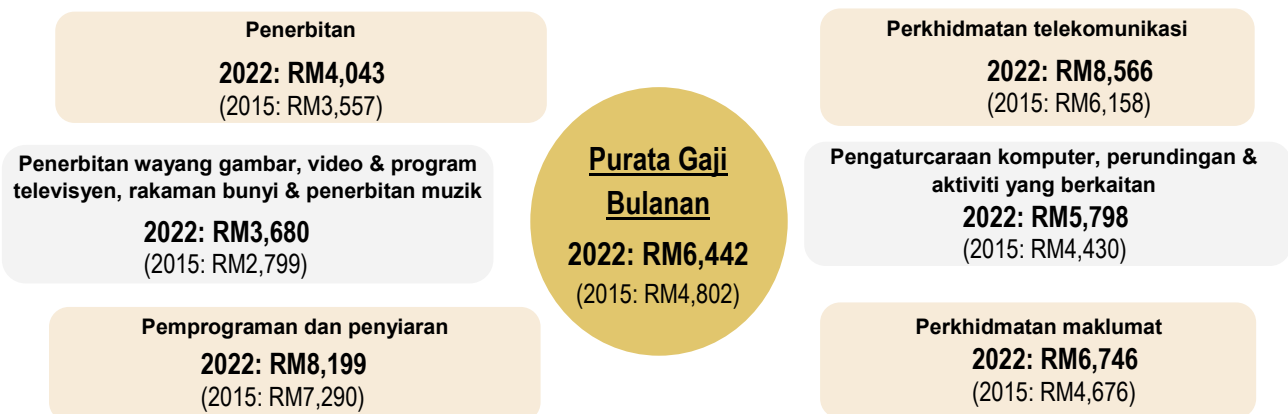
Jumlah gaji & upah pada tahun 2022 adalah sebanyak RM19.3 bilion berbanding RM11.7 bilion pada tahun 2015 mencatatkan kadar pertumbuhan tahunan 7.5 peratus (**Paparan 10**). Aktiviti pengaturcaraan komputer, perundingan & aktiviti yang berkaitan mencatatkan jumlah gaji & upah yang tertinggi iaitu RM8.5 bilion dengan sumbangan 44.2 peratus, diikuti oleh perkhidmatan telekomunikasi (RM7.0 bilion; sumbangan: 36.5%) dan aktiviti perkhidmatan maklumat (RM1.4 bilion; sumbangan 7.4%).

**Paparan 10: Gaji & Upah bagi Perkhidmatan Maklumat dan Komunikasi mengikut Aktiviti, 2015 dan 2022**



Purata gaji bulanan bagi Perkhidmatan Maklumat dan Komunikasi adalah sebanyak RM6,442 berbanding hanya RM4,802 pada 2015 (**Paparan 11**). Purata gaji bulanan tertinggi dicatatkan oleh aktiviti perkhidmatan telekomunikasi sebanyak RM8,566 diikuti oleh pemrograman & penyiaran (RM8,199) dan perkhidmatan maklumat (RM6,746).

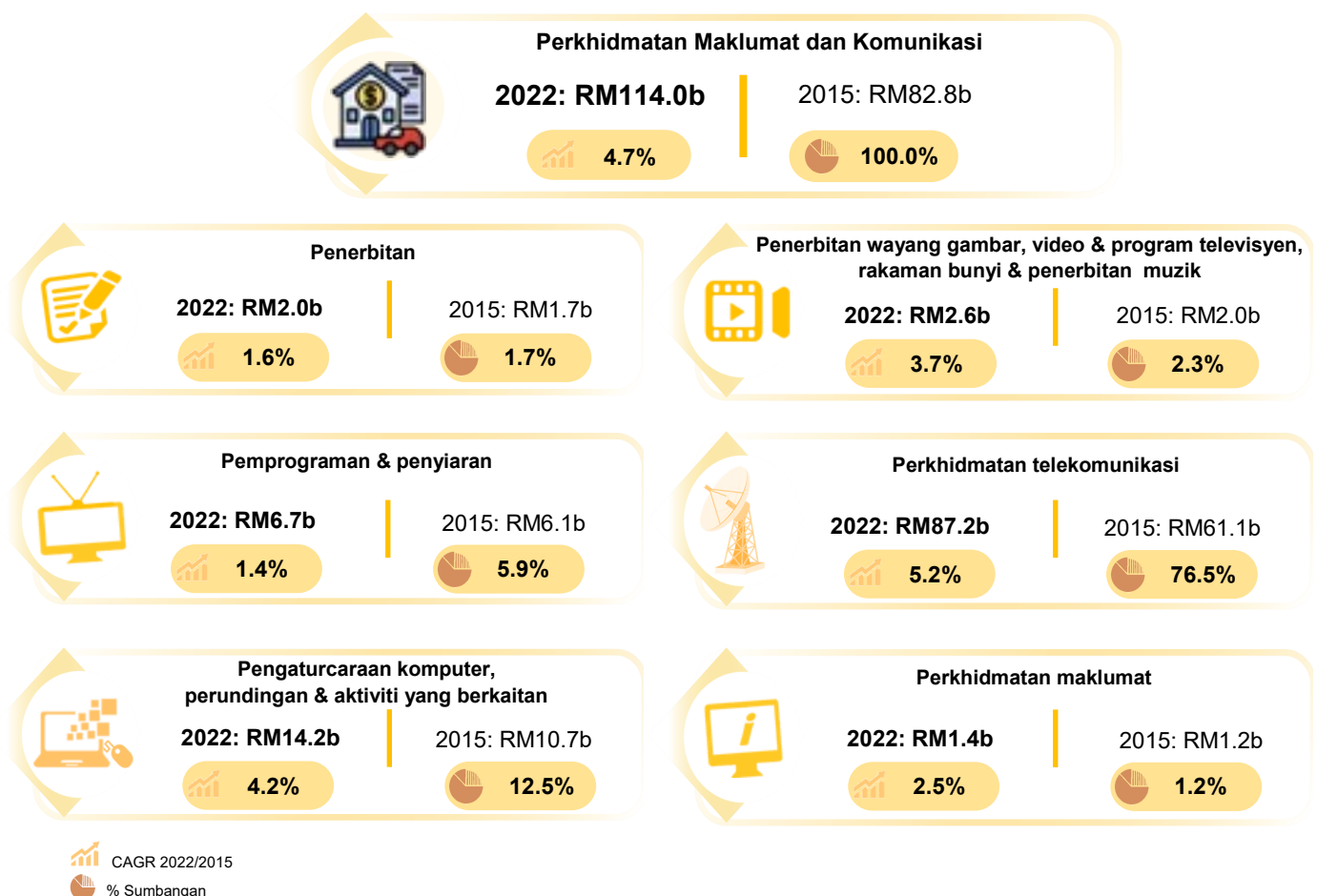
**Paparan 11: Purata Gaji Bulanan bagi Perkhidmatan Maklumat dan Komunikasi, 2015 and 2022**



## 9. NILAI HARTA TETAP

Nilai harta tetap dalam Perkhidmatan Maklumat dan Komunikasi secara keseluruhan menunjukkan peningkatan tahunan sebanyak 4.7 peratus kepada RM114.0 bilion pada 2022 berbanding RM82.8 bilion pada 2015. Perkhidmatan telekomunikasi merupakan penyumbang utama bagi harta tetap berjumlah RM87.2 bilion pada 2022 berbanding RM61.1 bilion pada 2015. Ini diikuti oleh pengaturcaraan komputer, perundingan & aktiviti yang berkaitan (RM14.2 bilion; sumbangan: 12.5%) dan Pemrograman & penyiaran (RM6.7 bilion; sumbangan: 5.9%) seperti **Paparan 12**.

**Paparan 12: Nilai Harta Tetap bagi Perkhidmatan Maklumat dan Komunikasi mengikut Aktiviti, 2015 dan 2022**

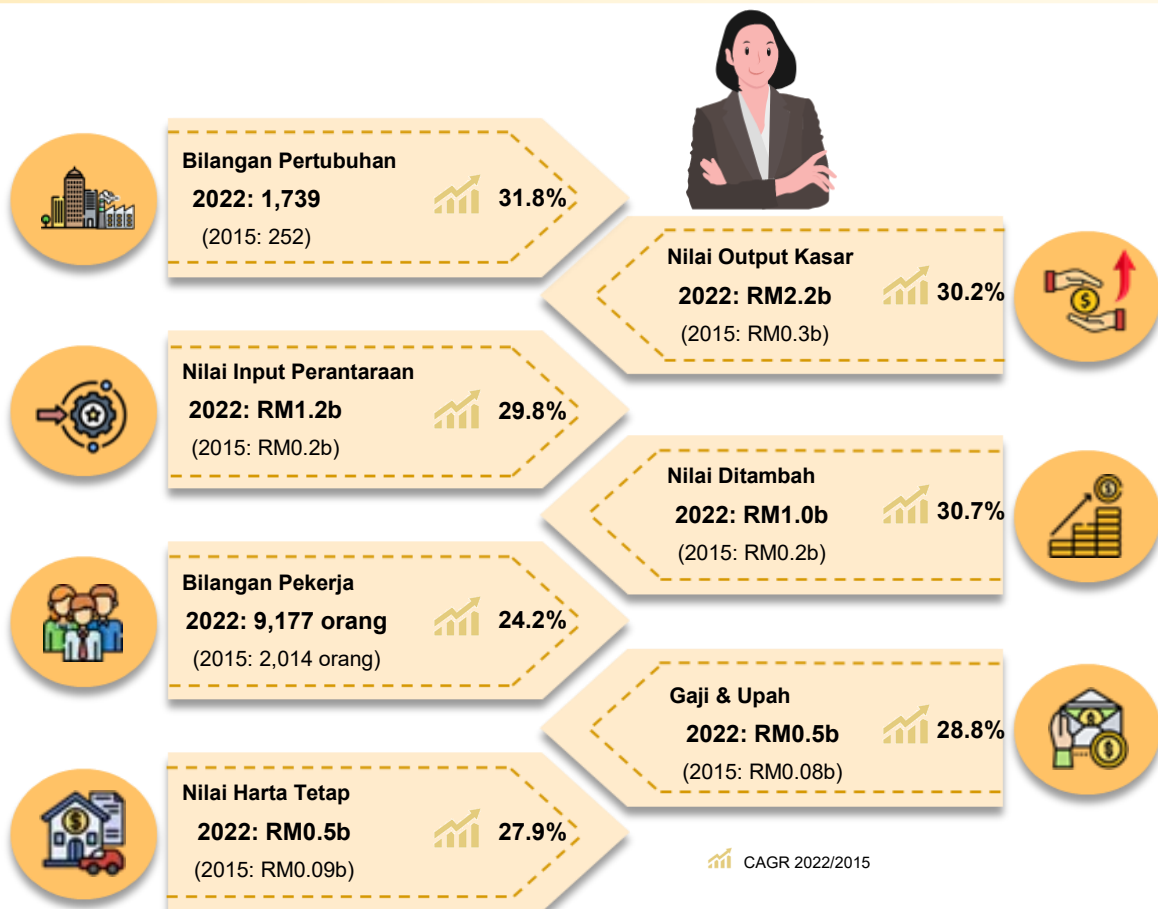


**10. PERTUBUHAN MILIKAN WANITA**

Terdapat 1,739 pertubuhan milikan wanita dalam Perkhidmatan Maklumat dan Komunikasi pada 2022 berbanding 252 pertubuhan pada 2015, dengan kadar pertumbuhan tahunan 31.8 peratus (**Paparan 13**). Pertubuhan milikan wanita ini menjana output kasar RM2.2 bilion dengan pertumbuhan tahunan 30.2 peratus. Input perantaraan juga meningkat kepada RM1.2 bilion, dengan pertumbuhan tahunan 29.8 peratus. Ini menghasilkan nilai ditambah RM1.0 bilion (2015: RM0.2 bilion).

Selain itu, bilangan pekerja dalam pertubuhan milikan wanita merekodkan 9,177 orang, meningkat dengan kadar pertumbuhan tahunan 24.2 peratus. Bagi gaji & upah pula, ia mencatatkan RM0.5 bilion dengan kadar pertumbuhan tahunan 28.8 peratus (2015: RM0.08 bilion). Nilai harta tetap dalam perkhidmatan ini menunjukkan peningkatan kadar pertumbuhan tahunan 27.9 peratus daripada RM0.09 bilion pada 2015 kepada RM0.5 bilion pada 2022.

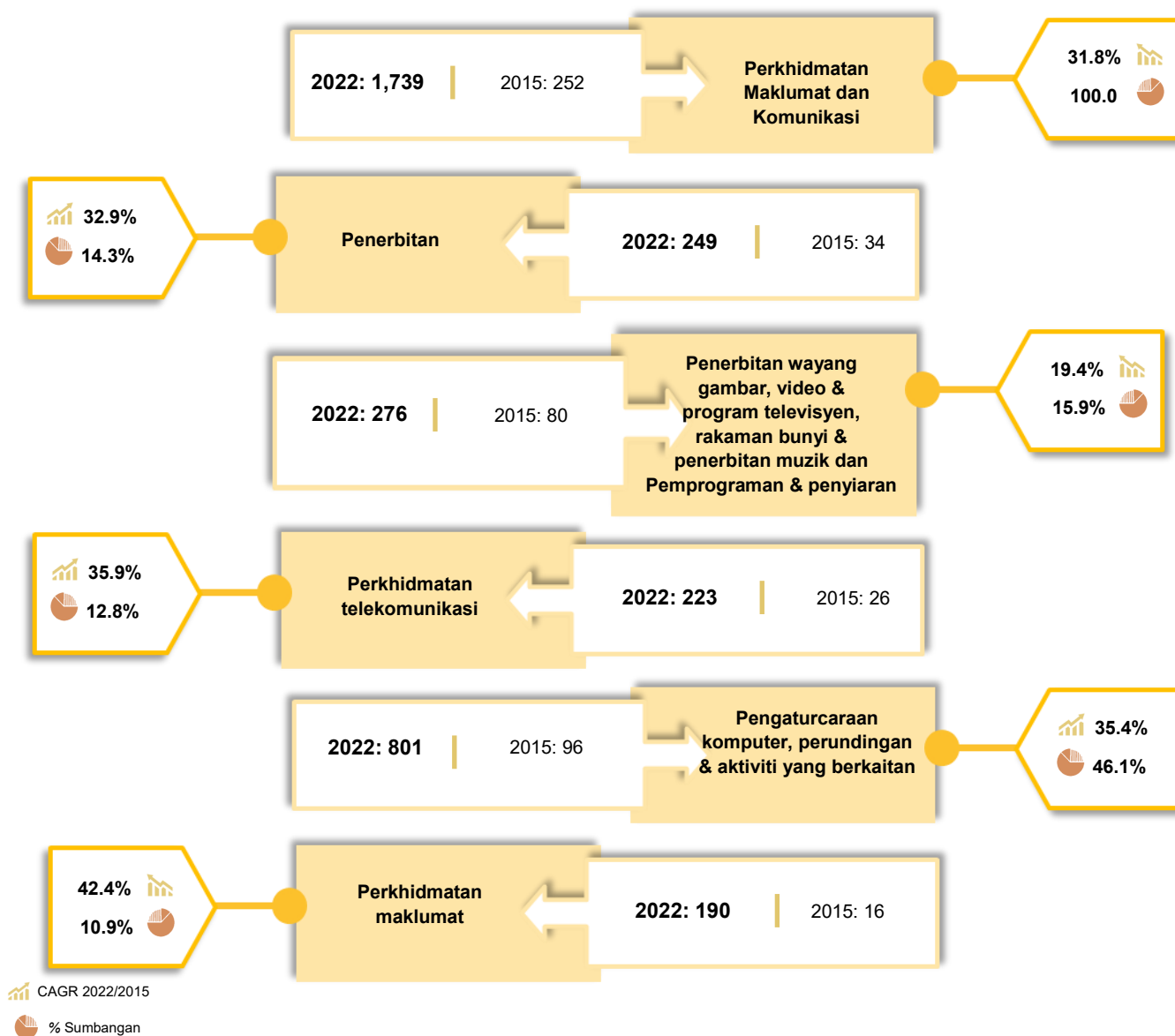
**Paparan 13: Statistik Utaman Pertubuhan Milikan Wanita bagi Perkhidmatan Maklumat dan Komunikasi, 2015 dan 2022**



## 10.1 PERTUBUHAN MILIKAN WANITA MENGIKUT AKTIVITI

Bilangan pertubuhan milikan wanita tertinggi dicatatkan oleh aktiviti pengaturcaraan komputer, perundingan & aktiviti yang berkaitan iaitu sebanyak 801 pertubuhan, diikuti oleh aktiviti penerbitan wayang gambar, video & program televisyen, rakaman bunyi & penerbitan muzik dan pemrograman & penyiaran (276 pertubuhan) dan aktiviti penerbitan (249 pertubuhan) seperti di **Paparan 14**.

**Paparan 14: Pertubuhan Milikan Wanita bagi Perkhidmatan Maklumat dan Komunikasi mengikut Aktiviti, 2015 dan 2022**

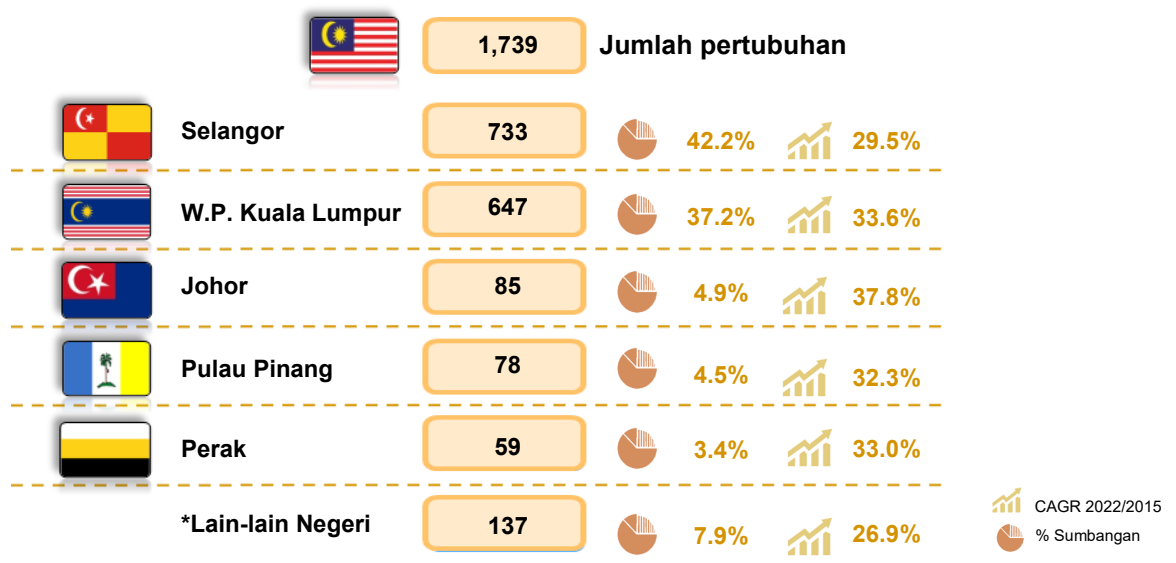




**10.2 PERTUBUHAN MILIKAN WANITA MENGIKUT NEGERI**

Bilangan pertubuhan tertinggi direkodkan di Selangor berjumlah 733 pertubuhan dengan kadar pertumbuhan tahunan 29.5 peratus (sumbangan: 42.2%). Ini diikuti oleh W.P. Kuala Lumpur dengan 647 pertubuhan (sumbangan: 37.2%) dan Johor dengan 85 pertubuhan (sumbangan: 4.9%). Ketiga-tiga negeri ini menyumbang 84.3 peratus pertubuhan milikan wanita dalam Perkhidmatan Maklumat dan Komunikasi menyumbang 84.3 peratus (**Paparan 15**).

**Paparan 15: Pertubuhan Milikan Wanita bagi Perkhidmatan Maklumat dan Komunikasi mengikut Negeri, 2022**

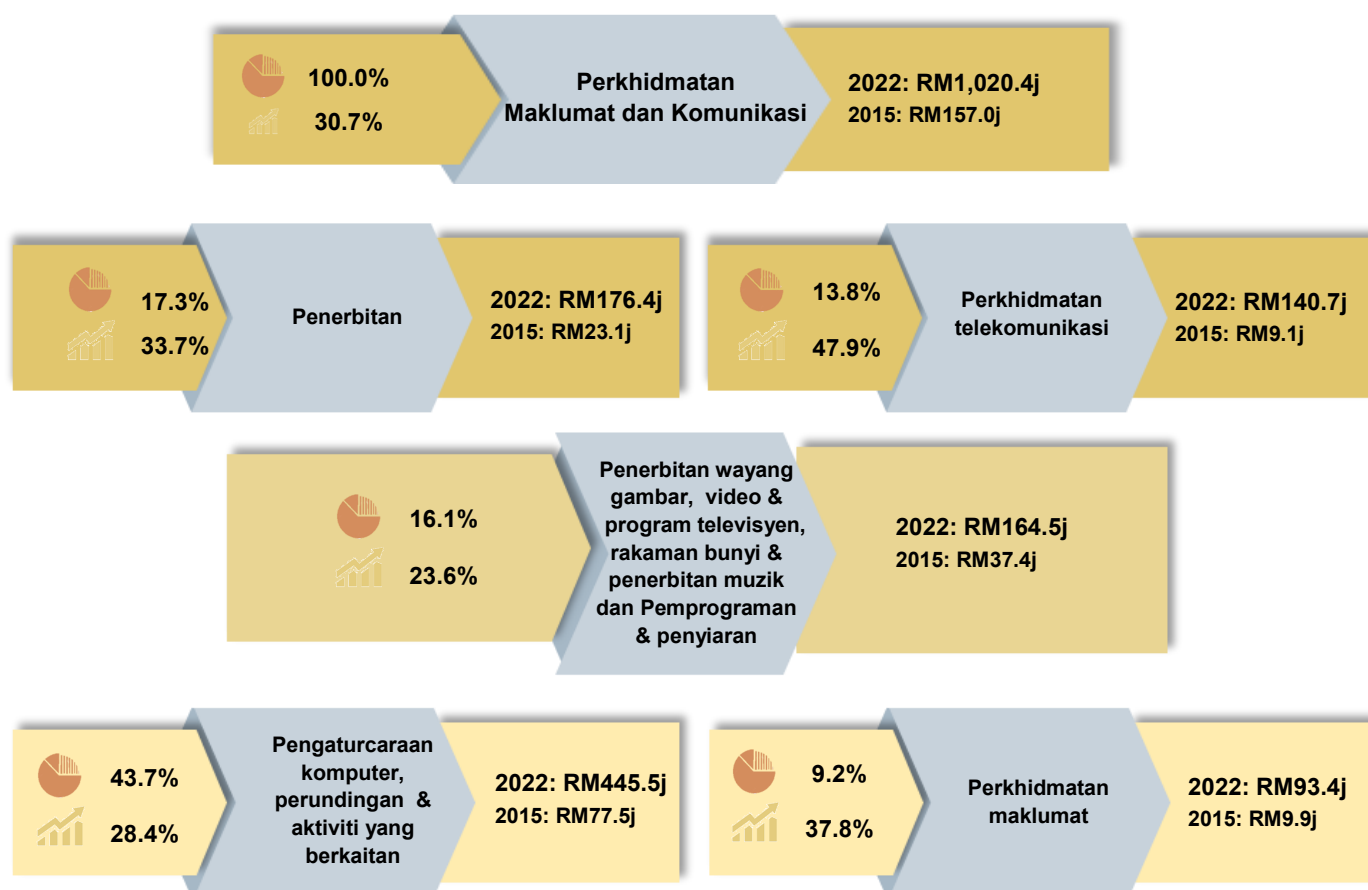




Nota: \* Lain-lain Negeri merujuk kepada Kedah, Sarawak, Melaka, Pahang, Kelantan, Negeri Sembilan, Perlis, Terengganu, Sabah dan W.P. Putrajaya.

## 10.3 NILAI DITAMBAH PERTUBUHAN MILIKAN WANITA MENGIKUT AKTIVITI

Nilai ditambah bagi pertumbuhan milikan wanita berjumlah RM1,020.4 juta berbanding RM157.0 juta pada 2015, mencerminkan pertumbuhan tahunan 30.7 peratus. Aktiviti pengaturcaraan komputer, perundingan & aktiviti yang berkaitan menjadi penyumbang tertinggi bagi nilai ditambah iaitu RM445.5 juta dengan sumbangan 43.7 peratus. Ini diikuti oleh aktiviti penerbitan (RM176.4j; sumbangan: 17.3%) dan penerbitan wayang gambar, video & program televisyen, rakaman bunyi & penerbitan muzik dan pemrograman & penyiaran (RM164.5j; sumbangan: 16.1%) seperti di **Paparan 16**.

**Paparan 16: Nilai ditambah Pertumbuhan Milikan Wanita bagi Perkhidmatan Maklumat dan Komunikasi mengikut Aktiviti, 2015 dan 2022**



 CAGR 2022/2015  
 % Sumbangan

## **11. PRESTASI MENGIKUT NEGERI**

Dari segi bilangan pertubuhan, Selangor mencatatkan bilangan pertubuhan tertinggi sebanyak 8,331 pertubuhan dengan kadar pertumbuhan tahunan 10.9 peratus (**Paparan 17**). Ini diikuti oleh W.P. Kuala Lumpur (7,092 pertubuhan; CAGR: 14.5%) dan Pulau Pinang (878 pertubuhan; CAGR: 12.8%).

W.P. Kuala Lumpur merekodkan sumbangan tertinggi dari segi output kasar iaitu sebanyak RM124.2 bilion dengan kadar pertumbuhan tahunan 6.1 peratus, diikuti oleh Selangor (RM57.2 bilion; CAGR: 6.8%) dan Pulau Pinang (RM5.2 bilion; CAGR: 5.1%). Selari dengan prestasi output kasar, W.P. Kuala Lumpur juga adalah penyumbang yang tertinggi bagi nilai ditambah iaitu RM68.5 bilion dengan kadar pertumbuhan tahunan 7.5 peratus, diikuti oleh Selangor (RM30.0 bilion; CAGR: 7.2%) dan Pulau Pinang (RM2.5 bilion; CAGR: 6.1%).

Bilangan pekerja tertinggi direkodkan dalam perkhidmatan ini di W.P Kuala Lumpur sebanyak 126,191 orang dengan pertumbuhan tahunan 3.5 peratus, diikuti oleh Selangor (101,048 orang; CAGR: 2.8%) dan Pulau Pinang (11,560 orang; CAGR: 0.8%). Dalam tempoh yang sama, jumlah gaji & upah tertinggi turut dicatatkan oleh W.P. Kuala Lumpur dengan RM10.5 bilion (CAGR: 8.0%), diikuti oleh Selangor dan Pulau Pinang masing-masing dengan RM8.0 bilion (CAGR: 7.2%) dan RM0.4 bilion (CAGR: 2.3%). Sementara itu, nilai harta tetap tertinggi yang dimiliki oleh pertubuhan dalam Perkhidmatan Maklumat dan Komunikasi pada tahun 2022 adalah W.P. Kuala Lumpur dengan RM84.0 bilion dan kadar pertumbuhan tahunan sebanyak 5.3 peratus, diikuti oleh Selangor RM21.4 bilion (CAGR: 2.9%) dan Pulau Pinang RM5.1 bilion (CAGR: 2.4%).

**Paparan 17: Bilangan Pertubuhan, Nilai Output Kasar dan Nilai ditambah bagi Perkhidmatan Maklumat dan Komunikasi mengikut Negeri, 2022**

	BILANGAN PERTUBUHAN	OUTPUT KASAR (RM juta)	INPUT PERANTARAAN (RM juta)	NILAI DITAMBAH (RM juta)	BILANGAN PEKERJA (orang)	GAJI & UPAH DIBAYAR (RM juta)	HARTA TETAP (RM juta)
 <b>Johor</b>	824 (16.3%)	916.7 (4.9%)	467.0 (4.9%)	449.7 (4.9%)	3,771 (2.1%)	119.6 (4.0%)	864.3 (8.2%)
 <b>Kedah</b>	168 (17.6%)	109.2 (3.9%)	58.5 (3.2%)	50.7 (4.8%)	538 (1.3%)	17.7 (3.2%)	42.7 (2.1%)
 <b>Kelantan</b>	41 (19.2%)	5.4 (7.6%)	3.1 (7.0%)	2.3 (8.5%)	74 (7.7%)	1.3 (8.5%)	0.5 (5.5%)
 <b>Melaka</b>	217 (13.9%)	176.1 (5.5%)	85.0 (4.6%)	91.1 (6.5%)	709 (4.2%)	17.2 (7.0%)	73.5 (4.0%)
 <b>Negeri Sembilan</b>	197 (25.1%)	169.8 (2.7%)	86.6 (2.6%)	83.2 (2.8%)	499 (1.8%)	19.3 (4.1%)	58.6 (2.7%)
 <b>Pahang</b>	76 (15.9%)	202.2 (9.1%)	66.5 (9.0%)	135.8 (9.1%)	349 (5.3%)	8.8 (3.4%)	562.6 (9.3%)
 <b>Pulau Pinang</b>	878 (12.8%)	5,245.4 (5.1%)	2,731.9 (4.4%)	2,513.5 (6.1%)	11,560 (0.8%)	375.3 (2.3%)	5,102.8 (2.4%)
 <b>Perak</b>	350 (14.2%)	423.5 (3.5%)	254.4 (3.6%)	169.1 (3.3%)	1,156 (2.3%)	43.6 (3.9%)	120.9 (1.3%)
 <b>Perlis</b>	20 (16.2%)	3.0 (5.0%)	1.7 (4.1%)	1.3 (6.3%)	48 (6.0%)	1.2 (7.2%)	1.6 (2.6%)
 <b>Selangor</b>	8,331 (10.9%)	57,212.2 (6.8%)	27,246.1 (6.3%)	29,966.2 (7.2%)	101,048 (2.8%)	8,037.5 (7.2%)	21,447.5 (2.9%)
 <b>Terengganu</b>	79 (28.0%)	25.2 (6.5%)	12.3 (6.2%)	12.8 (6.8%)	232 (2.8%)	7.6 (7.0%)	13.0 (5.0%)
 <b>Sabah</b>	268 (23.0%)	276.5 (2.9%)	160.2 (2.8%)	116.2 (3.0%)	1,138 (2.4%)	30.5 (3.6%)	238.8 (3.2%)
 <b>Sarawak</b>	316 (19.1%)	1,004.5 (3.4%)	485.0 (2.9%)	519.5 (3.9%)	2,911 (3.0%)	117.0 (8.7%)	1,457.5 (5.0%)
 <b>W.P. Kuala Lumpur</b>	7,092 (14.5%)	124,248.4 (6.1%)	55,753.1 (4.5%)	68,495.2 (7.5%)	126,191 (3.5%)	10,488.5 (8.0%)	83,995.2 (5.3%)
 <b>W.P. Labuan</b>	13 (18.3%)	3.8 (4.8%)	1.0 (4.2%)	2.8 (5.1%)	19 (5.6%)	0.4 (4.9%)	0.5 (8.1%)
 <b>W.P. Putrajaya</b>	33 (14.2%)	89.6 (8.8%)	49.1 (8.7%)	40.5 (8.9%)	266 (3.4%)	10.7 (5.9%)	39.3 (2.6%)
 <b>Malaysia</b>	<b>18,903</b> (13.1%)	<b>190,111.5</b> (6.2%)	<b>87,461.6</b> (5.0%)	<b>102,649.9</b> (7.3%)	<b>250,509</b> (3.0%)	<b>19,296.0</b> (7.5%)	<b>114,019.2</b> (4.7%)

CAGR: 2022/2015

## 1. INTRODUCTION

This report presents statistics on the Information and Communication Services that was compiled based on Economic Census 2023 for the reference year 2022. Information and Communication Services comprises the activity of publishing; motion picture, video and television programme production, sound recording and music publishing; programming and broadcasting; telecommunications services; computer programming, consultancy & related activities and information services.

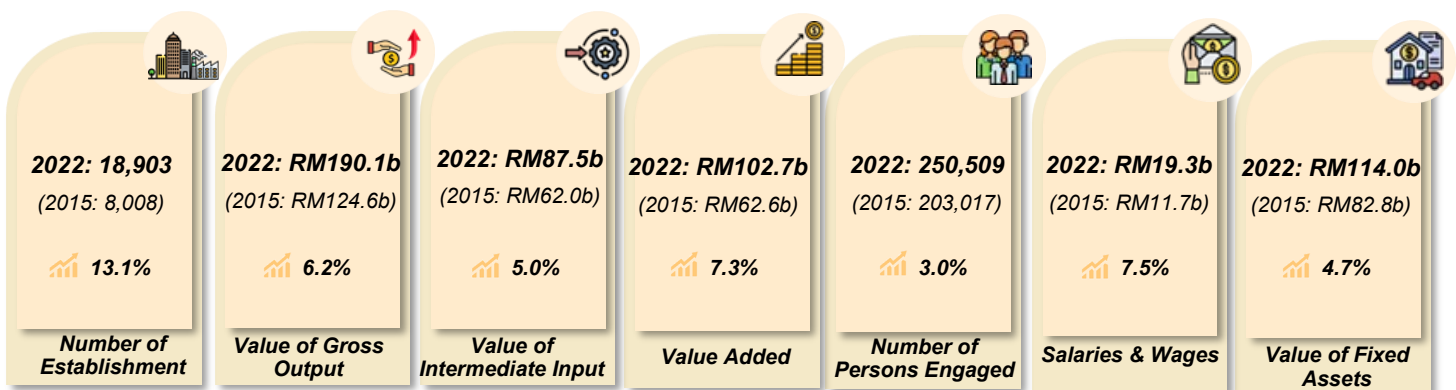
## 2. PERFORMANCE OF INFORMATION AND COMMUNICATION SERVICES

Overall, the main statistics for the Information and Communication Services in 2022 showed an increase as compared to 2015. There were 18,903 establishments operating in this subsector in 2022, with an annual growth rate of 13.1 per cent as against 2015 (8,008 establishments).

In 2022, the gross output amounted to RM190.1 billion, an increase of RM65.5 billion compared to 2015, with an annual growth rate of 6.2 per cent. Concurrently, intermediate input also increased by RM25.5 billion to reach RM87.5 billion, recording an annual growth rate of 5.0 per cent. This resulted in value added of RM102.7 billion in 2022 (2015: RM62.6 billion).

The number of persons engaged were 250,509 persons compared to 203,017 persons in 2015, representing an annual growth rate of 3.0 per cent. In line with the increment, total salaries & wages in 2022 grew by 7.5 per cent to RM19.3 billion (2015: RM11.7 billion). Meanwhile, the fixed assets owned by establishments in the Information and Communication Services amounted to RM114.0 billion in 2022 (2015: RM82.8 billion), with an annual growth rate of 4.7 per cent (**Exhibit 1**).

**Exhibit 1: Principal Statistics for Information and Communication Services, 2015 and 2022**



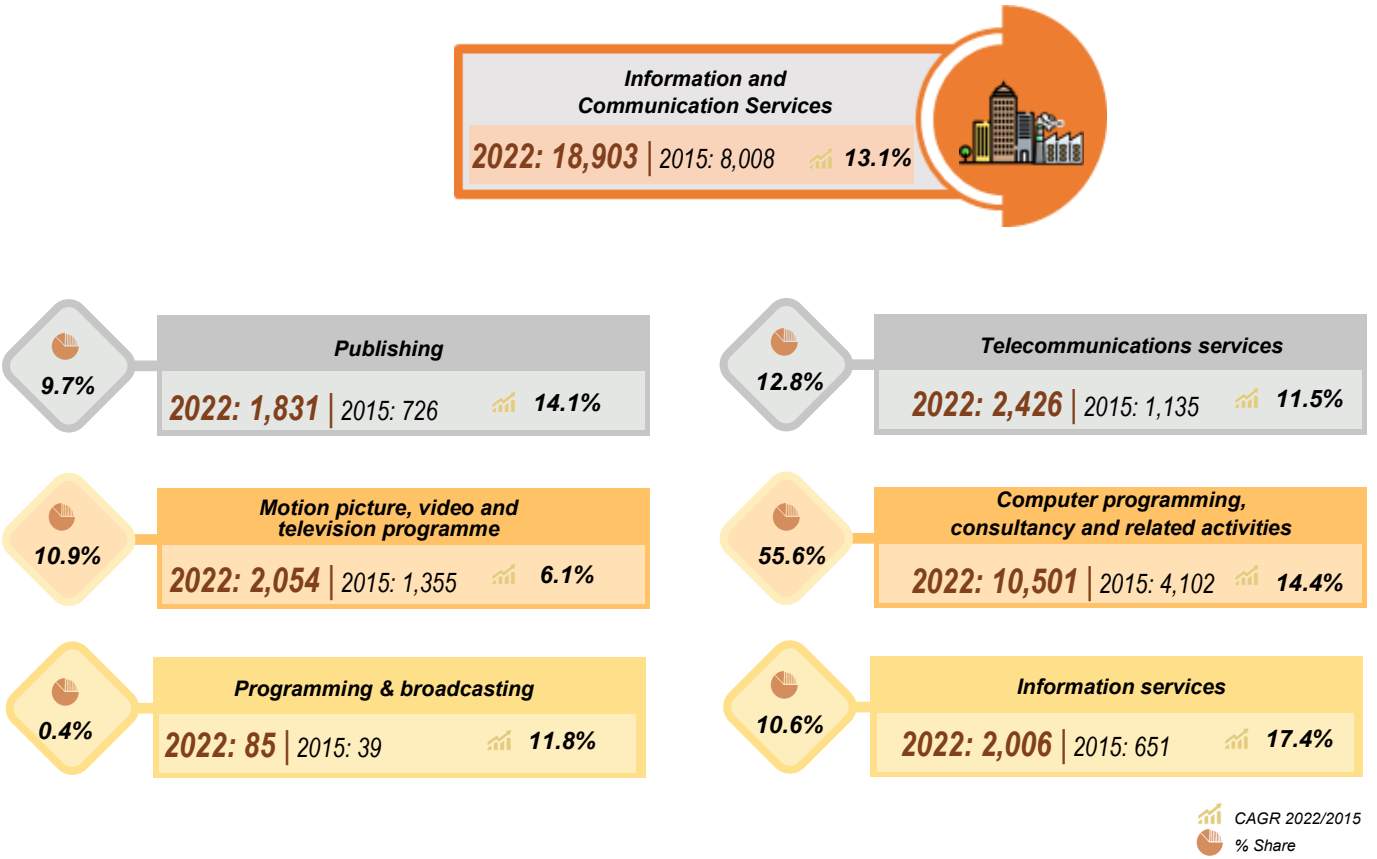
 CAGR 2022/2015

# SUMMARY OF FINDINGS

## 3. NUMBER OF ESTABLISHMENTS

The number of establishments operating in Information and Communication Services was 18,903 establishments in 2022 compared to 8,008 establishments in 2015, increased by 10,895 establishments with an annual growth rate of 13.1 per cent. Computer programming, consultancy and related activities recorded the highest number of establishments of 10,501 with a share of 55.6 per cent (**Exhibit 2**). This was followed by telecommunications services (2,426 establishments; share: 12.8%) and motion picture, video and television programme production, sound recording and music publishing activities (2,054 establishments; share: 10.9%).

**Exhibit 2: Number of Establishments for Information and Communication Services by Activity, 2015 and 2022**

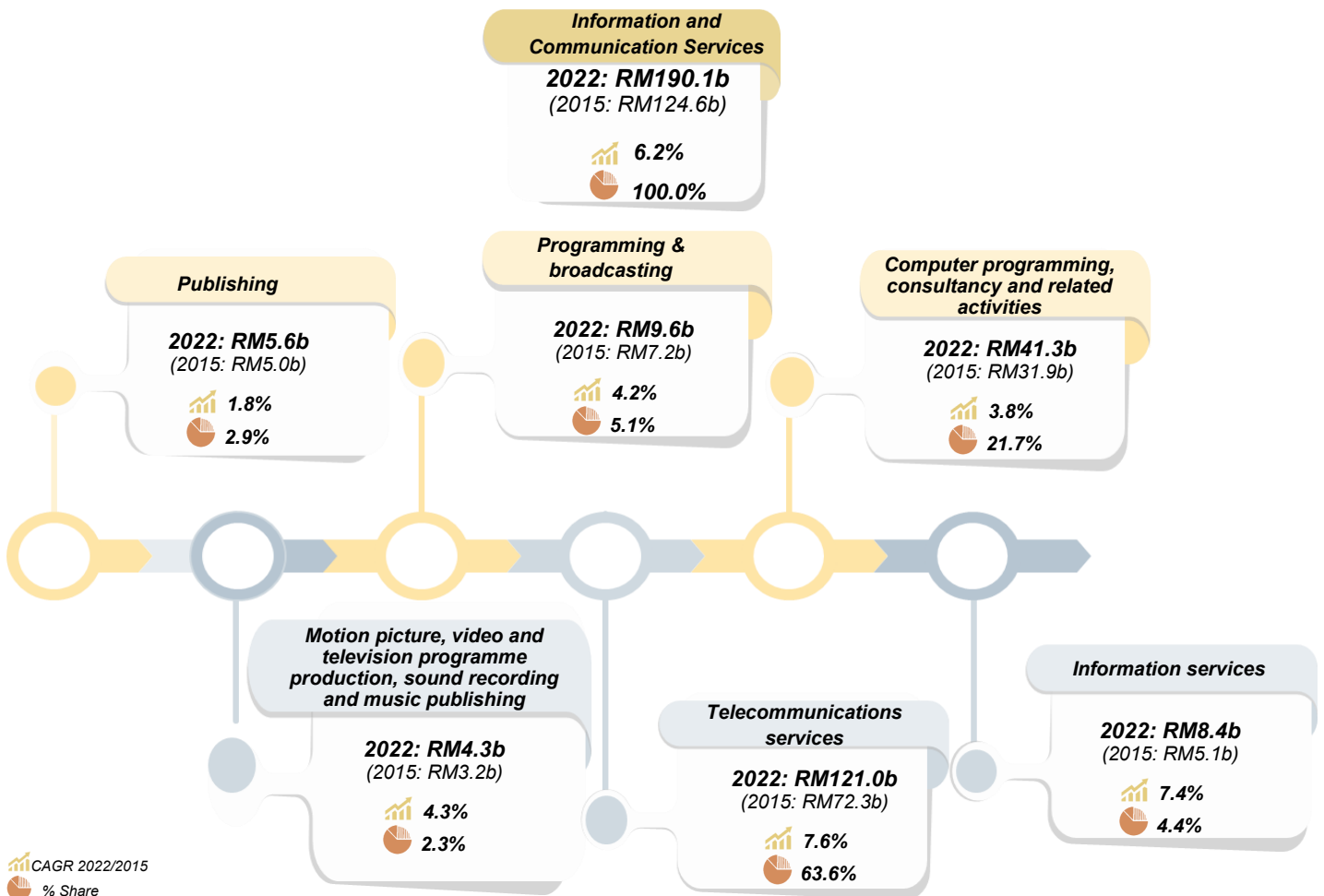


**4. VALUE OF GROSS OUTPUT**

The Information and Communication Services experienced tremendous expansion, generating a gross output of RM190.1 billion in 2022, an increase from RM124.6 billion in 2015, with annual growth rate of 6.2 per cent. The telecommunications services drove this expansion, increased by 7.6 per cent to RM121.0 billion from RM72.3 billion in 2015. Additionally, the information services recorded a significant annual growth rate of 7.4 per cent, reaching RM8.4 billion in 2022.

Telecommunications services accounted for 63.6 per cent of the total gross output. Computer programming, consultancy and related activities contributed 21.7 per cent of the total output. Together, these two activities constitute 85.3 per cent of the total gross output of the Information and Communication Services, demonstrating their essential significance in generating growth and contributing to Malaysia's economy (**Exhibit 3**). These changes illustrate the ongoing transition towards a more digital and high-value economy.

**Exhibit 3: Value of Gross Output for Information and Communication Services by Activity, 2015 and 2022**



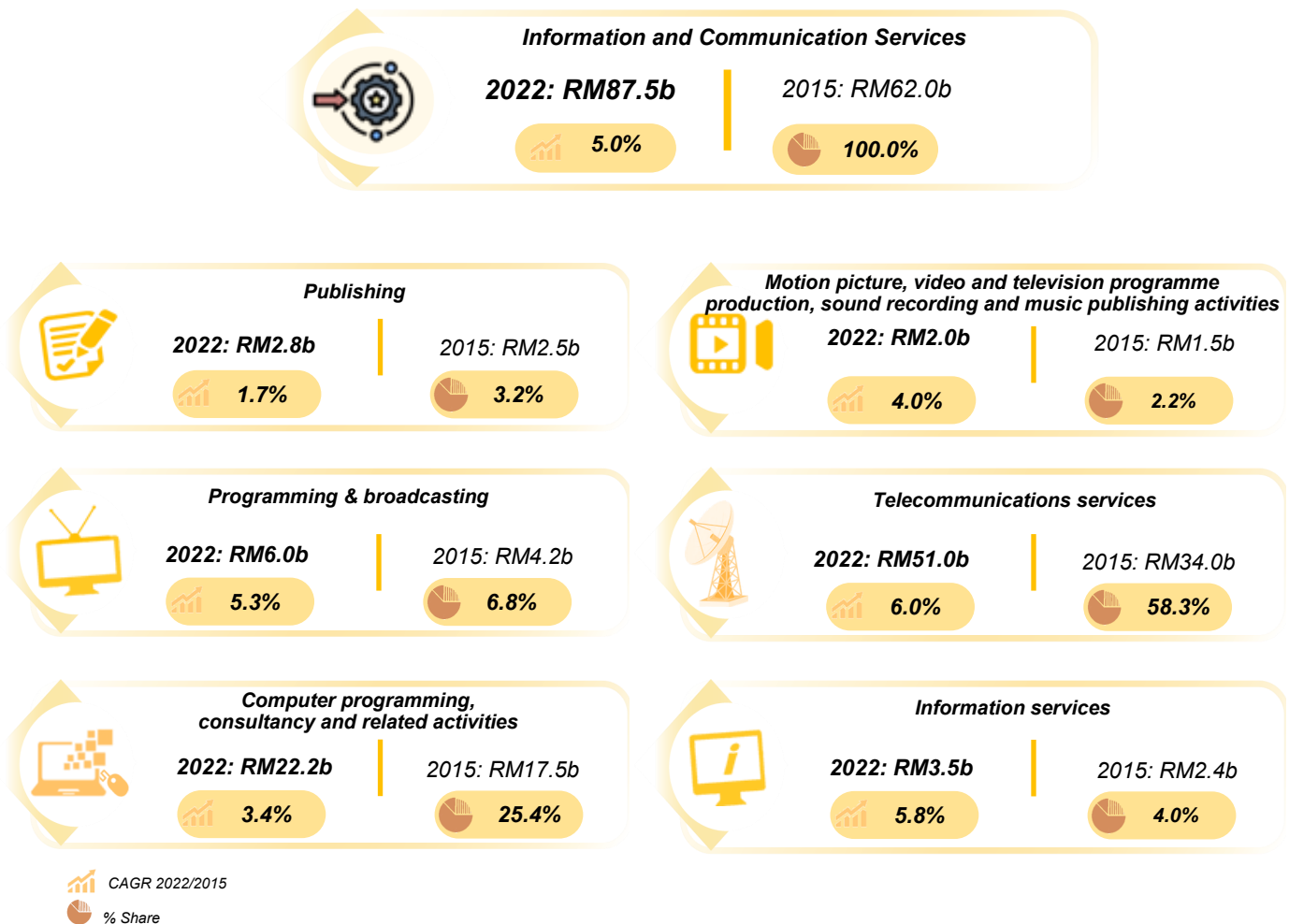
CAGR 2022/2015  
 % Share

## 5. VALUE OF INTERMEDIATE INPUT

The intermediate input for the Information and Communication Services rose by 5.0 per cent in 2022, to RM87.5 billion from RM62.0 billion in 2015. Telecommunications services accounted for the majority of the rise, increased 6.0 per cent to RM51.0 billion from RM34.0 billion in 2015. Furthermore, computer programming, consulting and related activities experienced a significant annual growth rate of 3.4 per cent, reaching RM22.2 billion in 2022.

Telecommunications services generated 58.3 per cent share of the total intermediate input, followed by computer programming, consulting and related activities which comprised 25.4 per cent. Both activities accounted for 83.7 per cent of the total intermediate input for the Information and Communication Services, demonstrating their importance to the services's overall growth and contribution (**Exhibit 4**).

**Exhibit 4: Value of Intermediate Input for Information and Communication Services by Activity, 2015 and 2022**



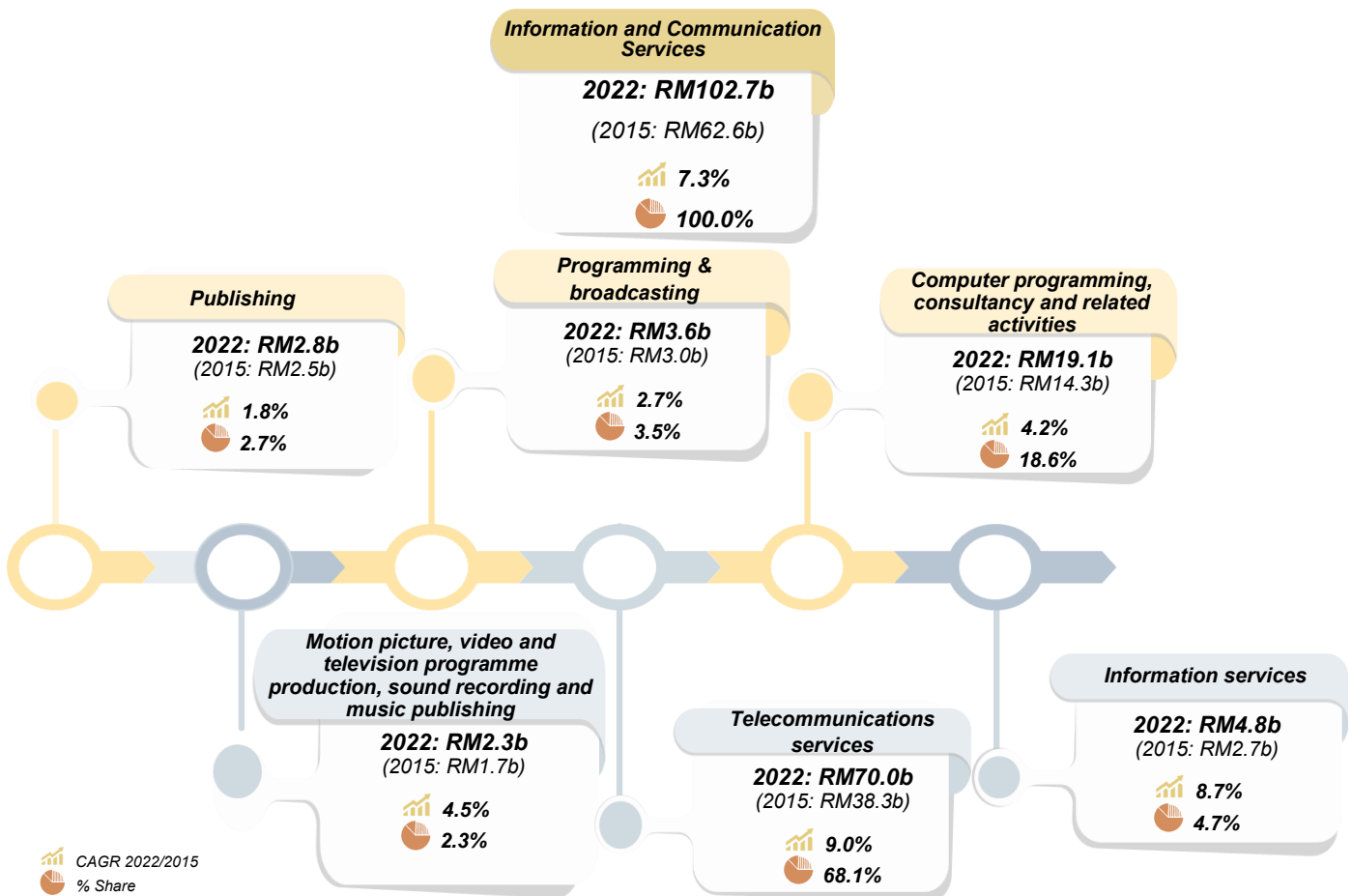


**6. VALUE ADDED**

In relation to Information and Communication Services, in Malaysia has experienced robust growth, gross output RM190.1 billion, This indicates a growing demand for these services, which drives the demand for reaching intermediate inputs, totaling RM87.5 billion. The value added in this services amounted to RM102.7 billion (2015: RM62.6 billion) with an annual growth rate of 7.3 per cent. This growth was mainly contributed by the telecommunication services, which registered an annual growth rate of 9.0 per cent to RM70.0 billion, compared to RM38.3 billion in 2015. This was followed by computer programming, consultancy and related activities which showed a significant annual growth rate of 4.2 per cent, amounting to RM19.1 billion in 2022 (**Exhibit 5**).

The telecommunication services recorded the highest value added amounting to RM70.0 billion with a percentage share of 68.1 per cent (2015: RM38.3 billion). This was followed by computer programming, consultancy and related activities (RM19.1 billion; share: 18.6%) and information services activities (RM4.8 billion; share: 4.7%).

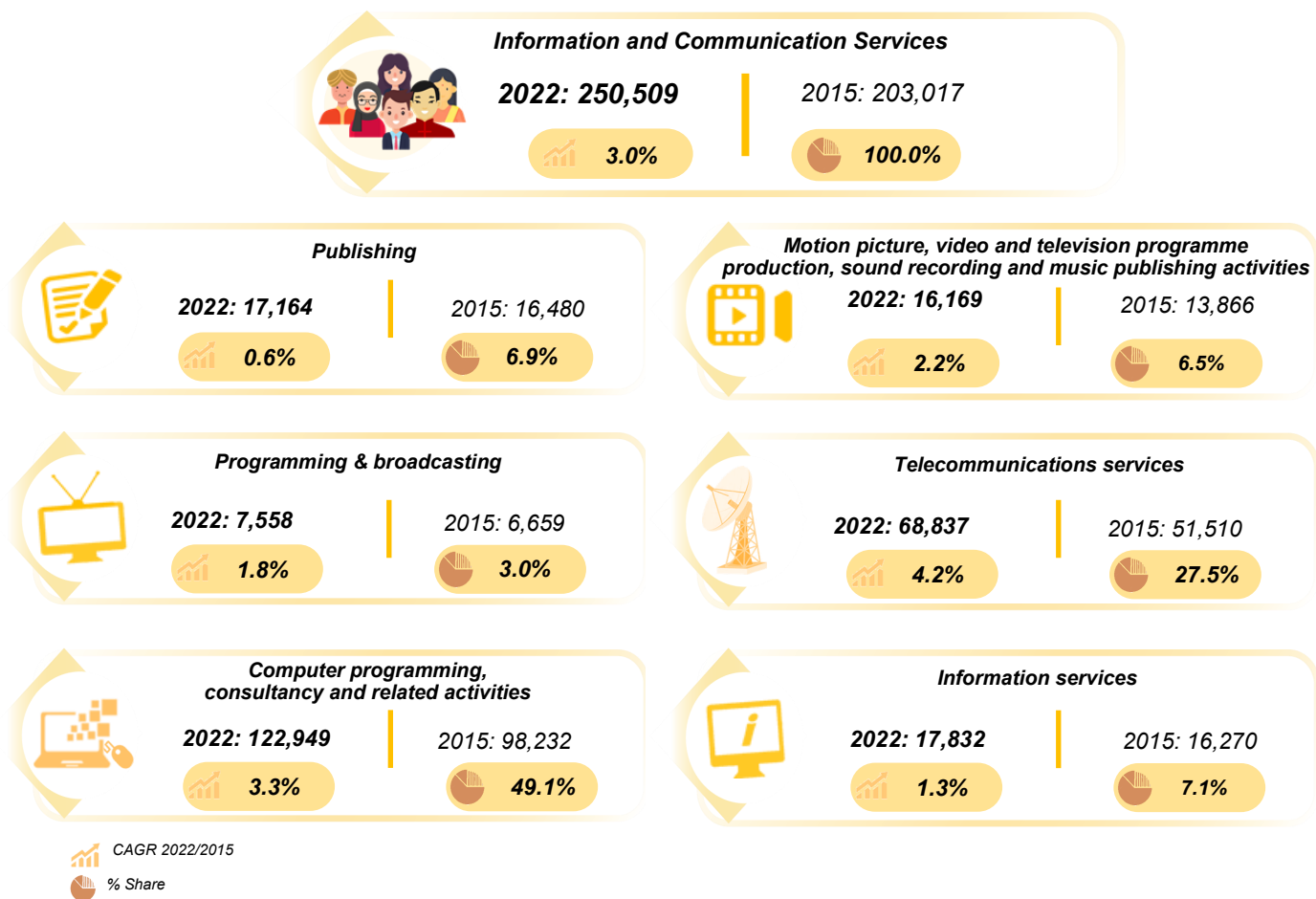
**Exhibit 5: Value Added for Information and Communication Services by Activity, 2015 and 2022**



## 7. NUMBER OF PERSONS ENGAGED

In 2022, the number of persons engaged in Information and Communication Services were 250,509 persons compared to 203,017 persons in 2015, to representing an annual growth rate of 3.0 per cent. Computer programming, consultancy & related activities engaged the highest number of persons, to record 122,949 persons contributing 49.1 per cent. This was followed by telecommunications services (68,837 persons; share: 27.5%) and information services activities (17,832 persons; share: 7.1%) as depicted in **Exhibit 6**.

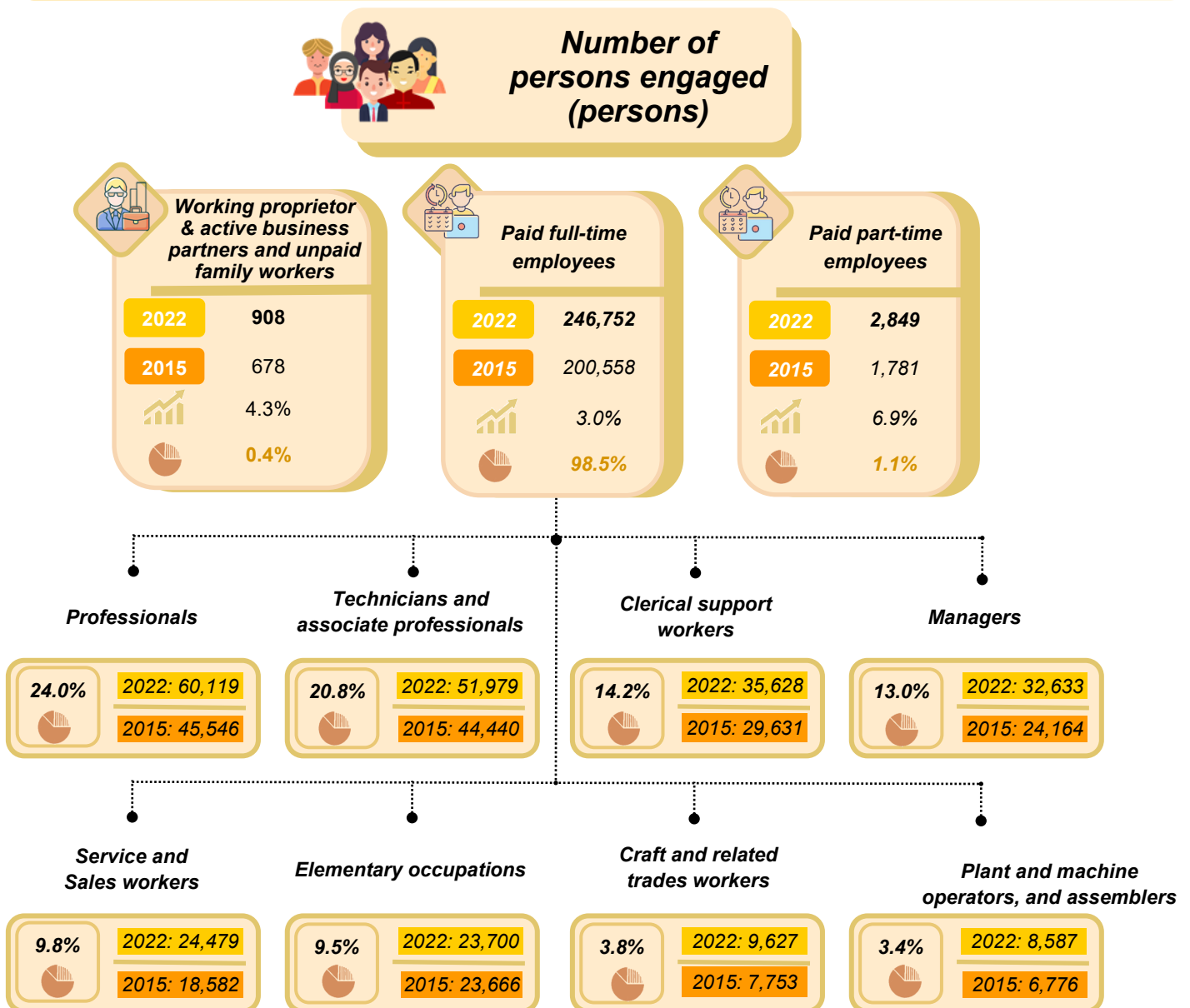
**Exhibit 6: Number of Persons Engaged for Information and Communication Services by Category, 2015 and 2022**



**7.1 NUMBER OF PERSONS ENGAGED BY CATEGORY OF WORKERS**

Overall, Information and Communication Services was predominantly composed of paid full-time employees recording a total of 246,752 persons or 98.5 per cent (2015: 200,558 persons). This was followed by paid part-time employees comprising 1.1 per cent or equivalent to 2,849 persons. The remaining were working owners & unpaid family workers (908 persons; share: 0.4%). For full-time paid employees, Professionals constituted the largest group with 60,119 persons (share 24.0%), followed by technicians and associate professionals (51,979 persons; 20.8%) and clerical support workers (35,628 persons; share: 14.2%).

**Exhibit 7: Number of Persons Engaged for Information and Communication Services by Category of Workers, 2015 and 2022**



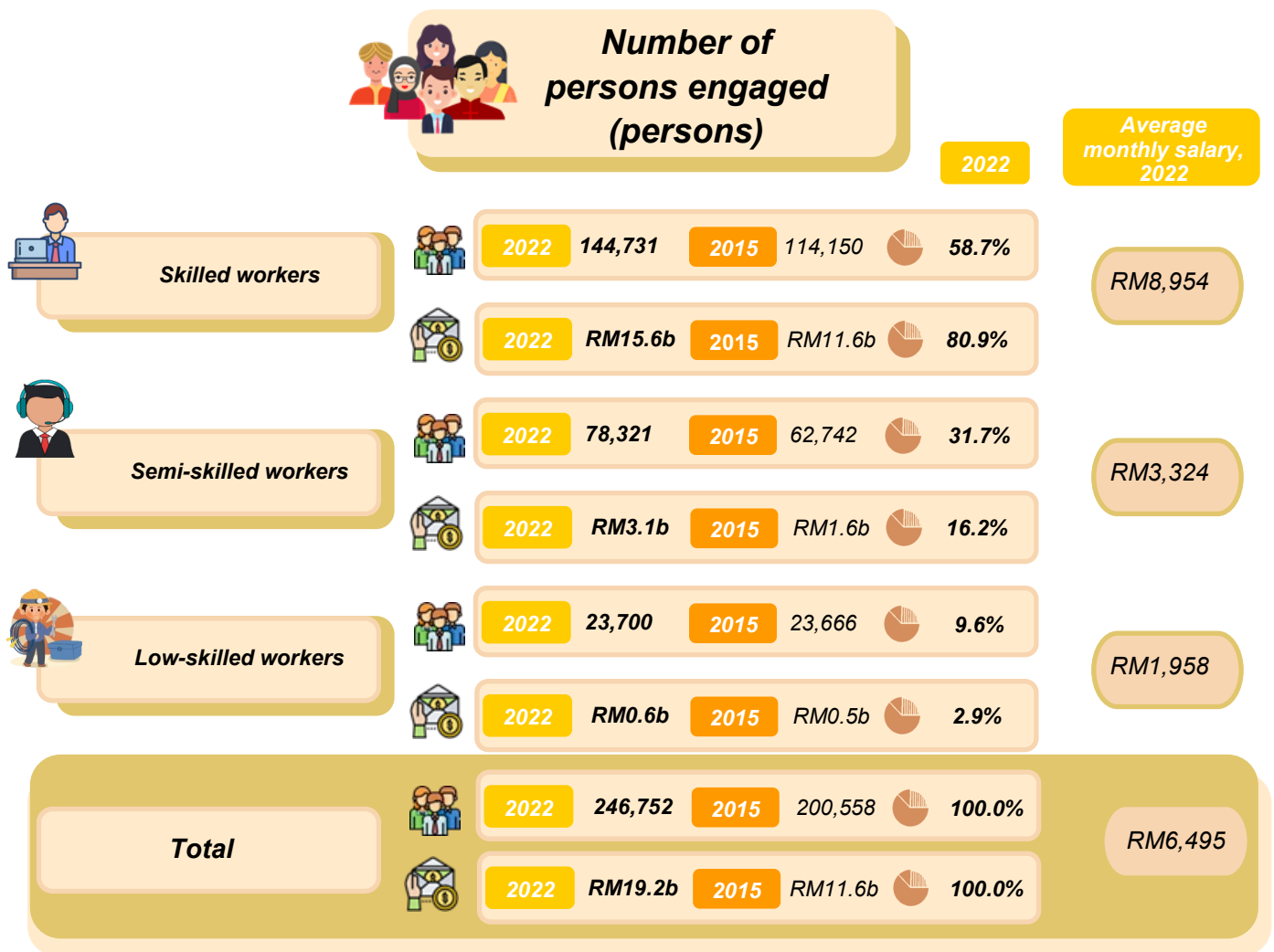
CAGR 2022/2015  
 % Share

7.2 NUMBER OF PERSONS ENGAGED BY CATEGORY OF SKILLS

The employment landscape was predominantly by skilled workers, made up 58.7 per cent of the total with 246,752 persons engaged in 2022. This was followed by semi-skilled workers comprising 31.7 per cent with 78,321 persons, while low-skilled workers represented 9.6 per cent with 23,700 persons. In terms of salaries & wages, skilled workers topped the chart with RM15.6 billion (share: 80.9%), followed by semi-skilled workers at RM3.1 billion (share: 16.2%), and low-skilled workers at RM0.6 billion (share: 2.9%).

Skilled workers recorded an average monthly salary of RM8,954 while semi-skilled workers and low-skilled workers received average monthly salary of RM3,324 and RM1,958, respectively as depicted in **Exhibit 8**.

**Exhibit 8: Number of Persons Engaged for Information and Communication Services by Category of Skills, 2015 and 2022**



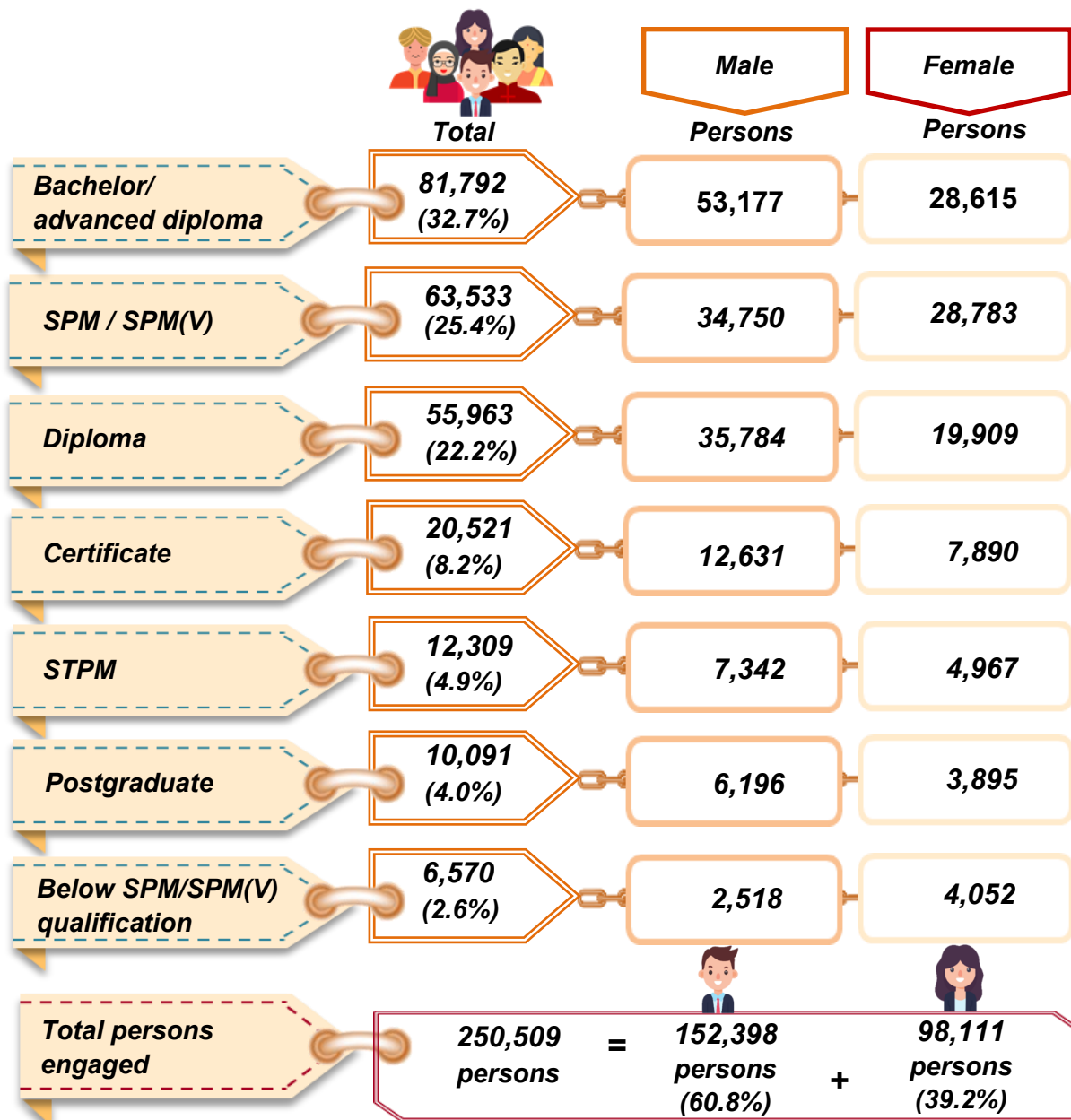
% Share

**7.3 NUMBER OF PERSONS ENGAGED BY HIGHEST CERTIFICATE OBTAINED**

The majority of employees in the Information and Communication Services obtained Bachelor/ advanced diploma, totaling 81,792 persons or 32.7 per cent of the workers in this services (2015: 69,041 persons). This was followed by SPM/ SPM (V) with 63,533 persons (share: 25.4%), and Diploma with 55,963 persons with a percentage share of 22.2 per cent (2015: 43,475 persons) as illustrated in **Exhibit 9**.

In terms of gender, males were the largest contributor, representing 60.8 per cent or 152,398 persons, whereas females contributed 39.2 per cent with 98,111 persons.

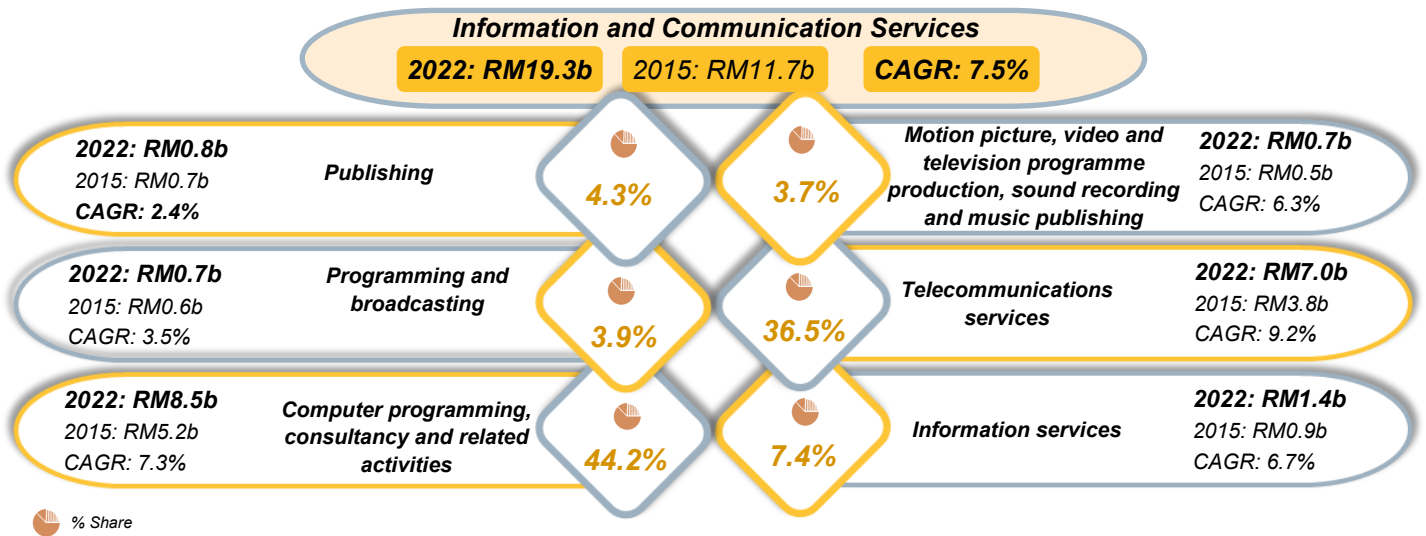
**Exhibit 9: Category of Qualification in Information and Communication Services, 2022**



8. SALARIES & WAGES

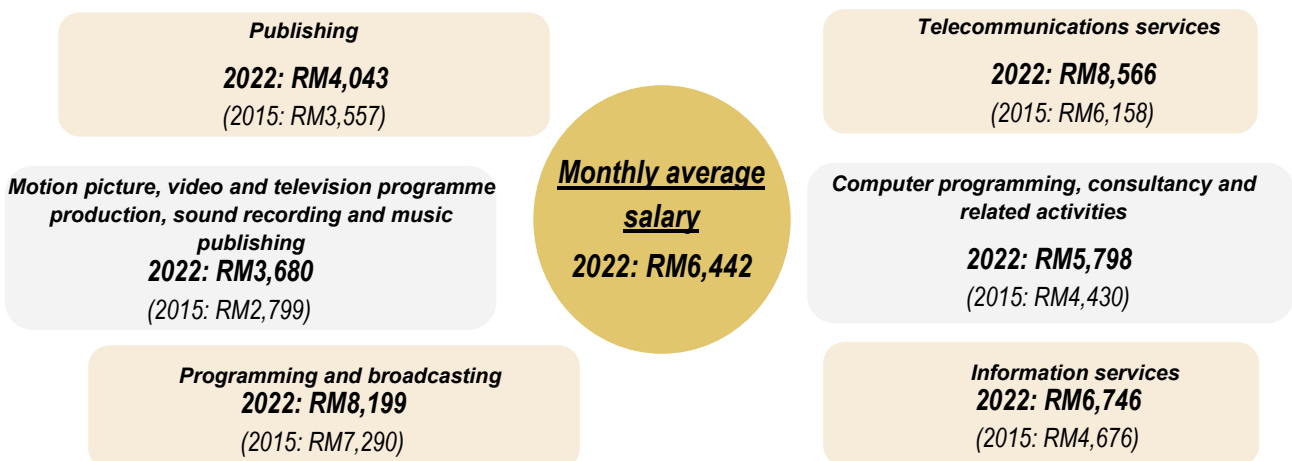
Total salaries & wages in 2022 were RM19.3 billion compared to RM11.7 billion in 2015, registering an annual growth rate of 7.5 per cent (**Exhibit 10**). Computer programming, consultancy and related activities recorded the highest salaries & wages at RM8.5 billion with percentage share of 44.2 per cent, followed by telecommunications services (RM7.0 billion; share: 36.5%) and information services activities (RM1.4 billion; share: 7.4%).

**Exhibit 10: Salaries & Wages for Information and Communication Services by Activity, 2015 and 2022**



Average monthly salary of Information and Communication Services recorded RM6,442 compared to RM4,802 in 2015 (**Exhibit 11**). The highest average monthly salary was recorded in telecommunications services with RM8,566, followed by programming & broadcasting (RM 8,199) and information services (RM6,746).

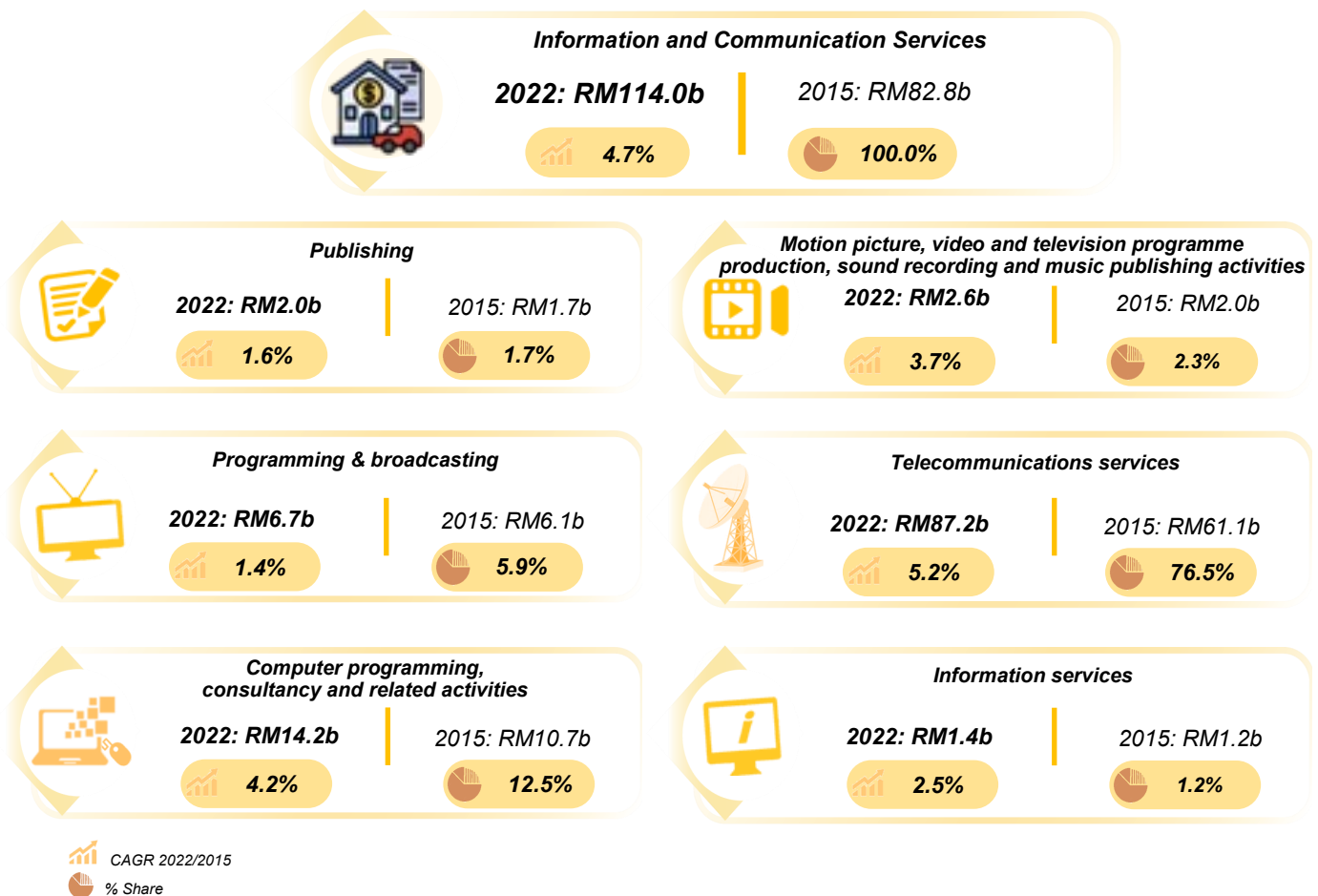
**Exhibit 11: Average Monthly Salary for Information and Communication Services by Activity, 2015 and 2022**



**9. VALUE OF FIXED ASSETS**

Overall, value of fixed assets in the Communication and Services showed an increase of 4.7 per cent annually to register RM114.0 billion in 2022 compared to RM82.8 billion in 2015. The main contributor was telecommunication services which recorded the highest fixed asset value amounting to RM87.2 billion in 2022 as compared to RM61.1 billion in 2015. This was followed by computer programming, consultancy and related activities (RM14.2 billion; share: 12.5%) and programming & broadcasting (RM6.7 billion; share: 5.9%) as presented in **Exhibit 12**.

**Exhibit 12: Value of Fixed assets for Information and Communication Services by Activity, 2015 and 2022**

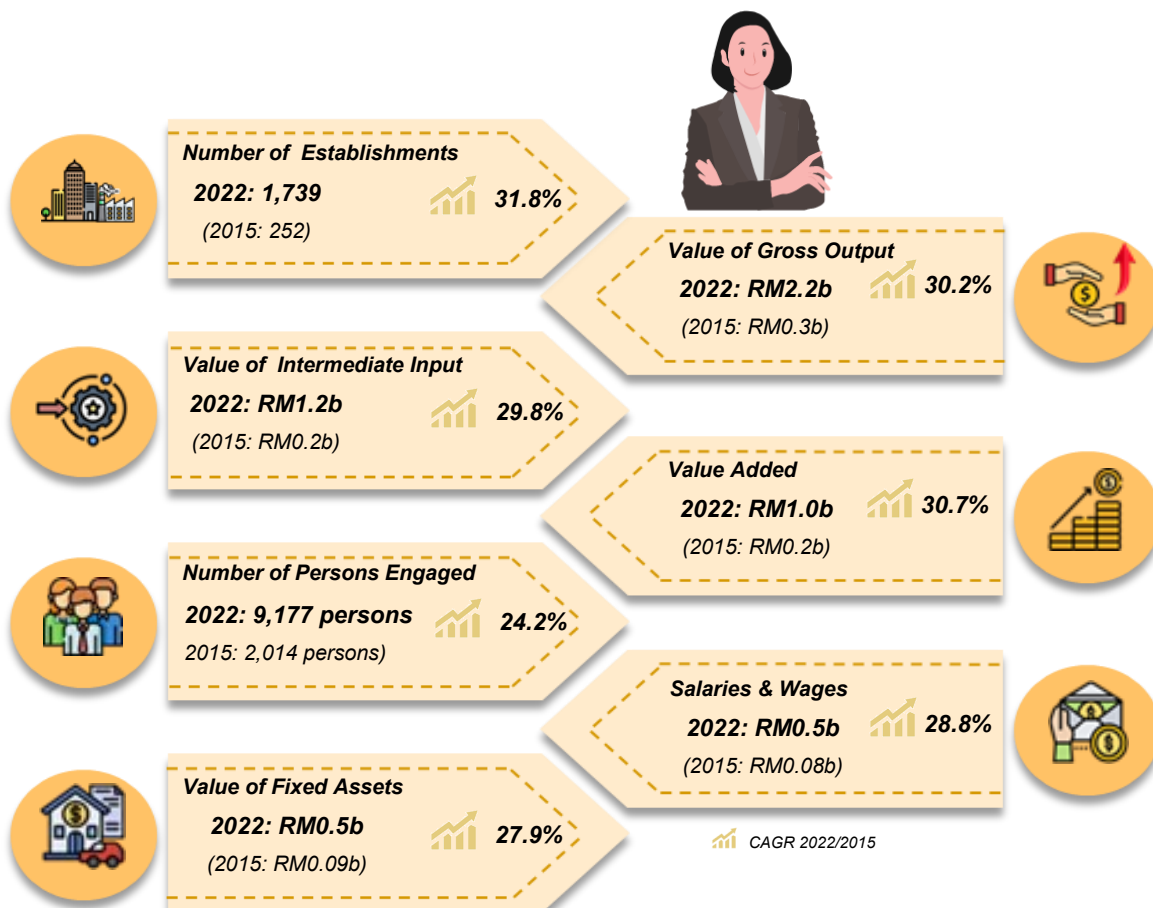


## 10. WOMEN-OWNED ESTABLISHMENTS

There were 1,739 women-owned establishments in Information and Communication Services in 2022, as compared to 252 establishments in 2015, reflecting an annual growth rate of 31.8 per cent (**Exhibit 13**). These women-owned establishments generated a gross output of RM2.2 billion with an annual growth rate of 30.2 per cent. Intermediate input also increased to RM1.2 billion, which grew annually by 29.8 per cent. This resulted in value added of RM1.0 billion (2015: RM0.2 billion).

Additionally, the number of persons engaged for women-owned establishments were 9,177 persons, surged 24.2 per cent annually. As for salaries & wages, it posted RM0.5 billion with an annual growth rate of 28.8 per cent (2015: RM0.08 billion). The value of fixed assets in this services showed an increase of 27.9 per cent annually from RM0.09 billion in 2015 to RM0.5 billion in 2022.

**Exhibit 13: Principal Statistics of Women-owned Establishments for Information and Communication Services, 2015 and 2022**

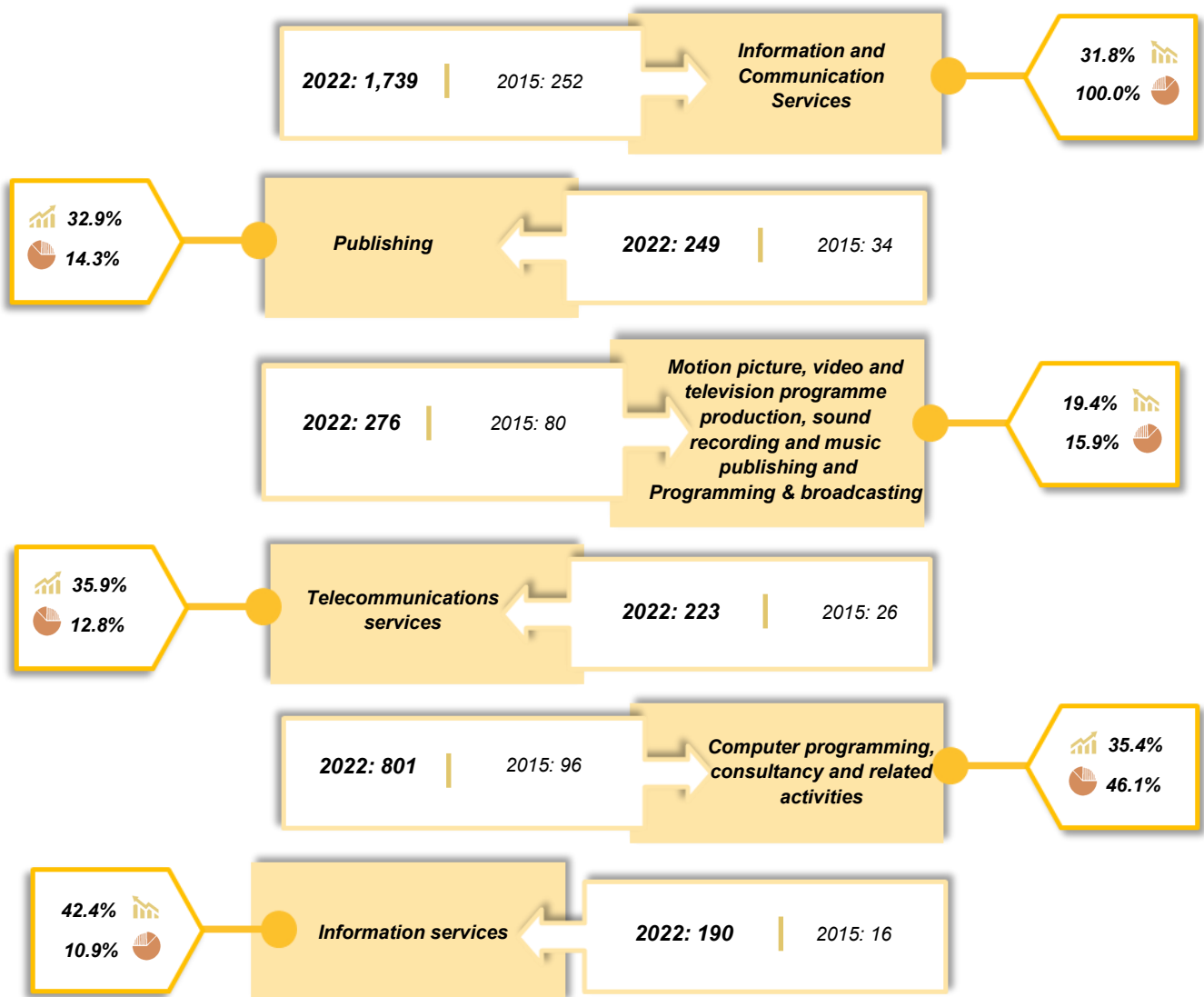




**10.1 WOMEN-OWNED ESTABLISHMENTS BY ACTIVITY**

In 2022, there were 1,739 women-owned establishments in Information and Communication Services, an increase from 252 in 2015, representing a 31.8 per cent annual growth rate. (Exhibit 14). This was accounted for 9.2 per cent of the total establishments in this services. The highest number of women-owned establishments was recorded in computer programming, consultancy and related activities with 801 establishments, followed by motion picture, video and television programme production, sound recording and music publishing and programming & broadcasting (276 establishments) and publishing (249 establishments).

**Exhibit 14: Number of Women-owned Establishments for Information and Communication Services by Activity, 2015 and 2022**

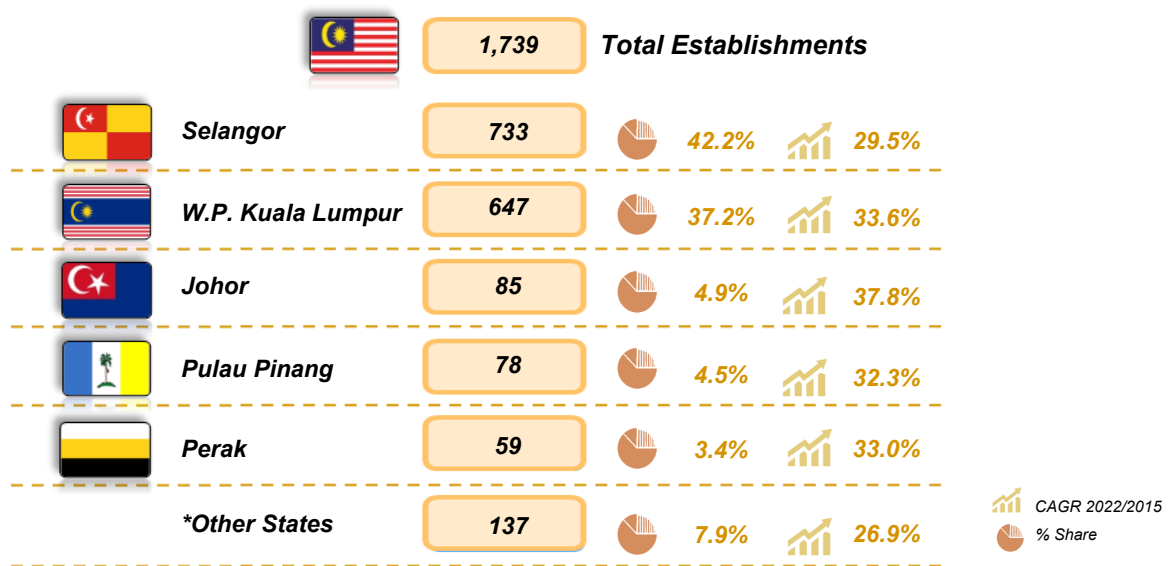


CAGR 2022/2015  
 % Share

## 10.2 WOMEN-OWNED ESTABLISHMENTS BY STATE

The highest number of establishments recorded in Selangor amounted to 733 establishments, with annual growth rate of 29.5 per cent (share: 42.2%). This was followed by W.P. Kuala Lumpur with 647 establishments (share: 37.2%) and Johor 85 establishments (share: 4.9%). These three states contribute 84.3 per cent of total women-owned establishments in Information and Communication Services as depicted in **Exhibit 15**.

**Exhibit 15: Women-owned Establishments for Information and Communication Services by State, 2022**

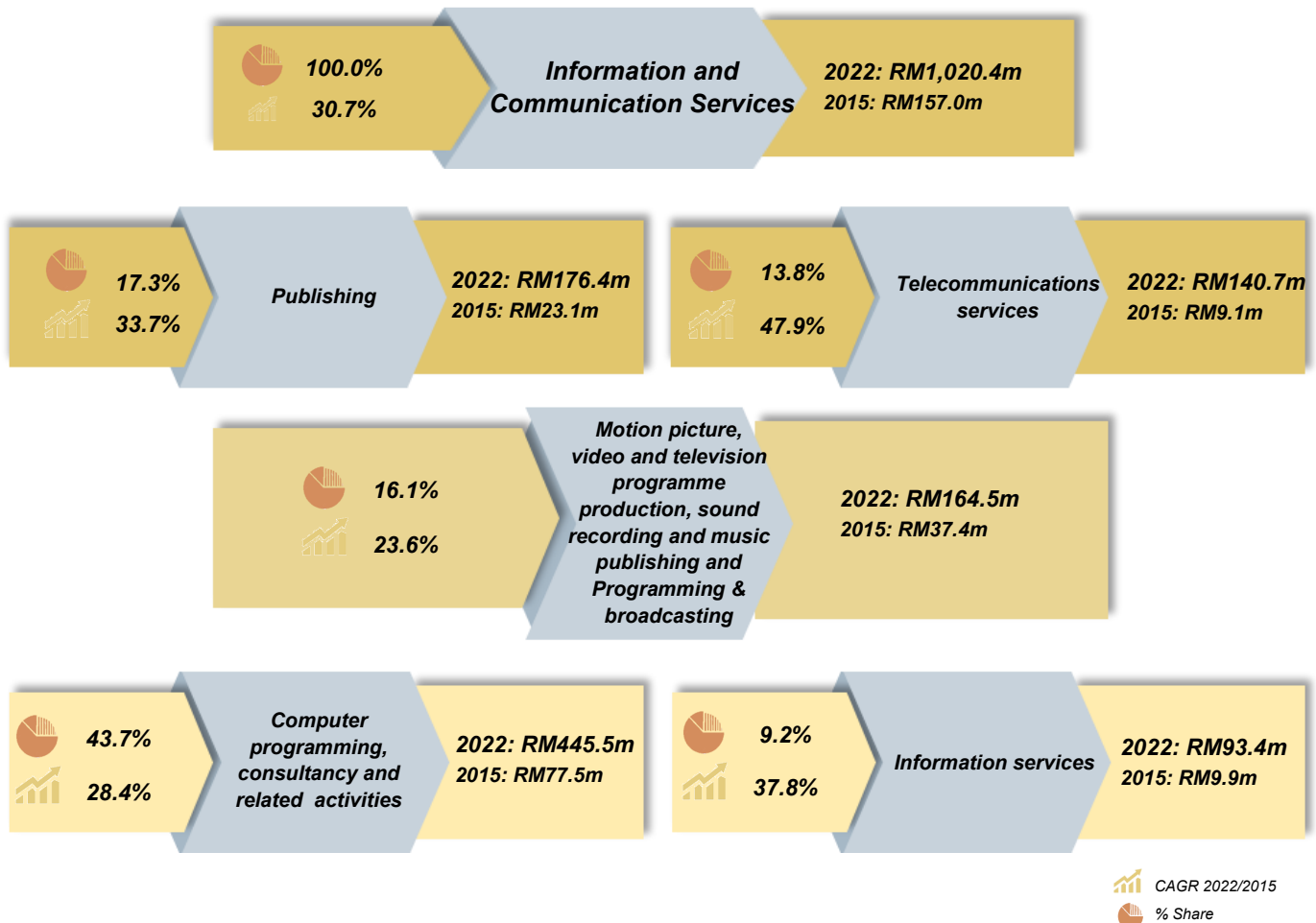


Note. \*Other states refer to Kedah, Sarawak, Melaka, Pahang, Kelantan, Negeri Sembilan, Perlis Terengganu, Sabah and W.P. Putrajaya.

**10.3 VALUE ADDED OF WOMEN-OWNED ESTABLISHMENTS BY ACTIVITY**

The total value added for women-owned establishments in Information and Communication Services amounted to RM1,020.4 million as compared to RM157.0 million in 2015, reflecting an annual growth rate of 30.7 per cent. Computer programming, consultancy and related activities was the major contributor for value added, amounted to RM445.5 million with percentage share of 43.7 per cent. This was followed by publishing activities (RM176.4m; share: 17.3%) and motion picture, video and television programme production, sound recording and music publishing and programming & broadcasting (RM164.5m; share: 16.1%) as shown in **Exhibit 16**.

**Exhibit 16: Value Added of Women-owned Establishments for Information and Communication Services by Activity, 2015 and 2022**





### 11. PERFORMANCE BY STATE

In terms of number of establishments, Selangor recorded the highest number of establishments with 8,331 achieving an annual growth rate of 10.9 per cent (**Exhibit 17**). This was followed by W.P. Kuala Lumpur (7,092 establishments; CAGR: 14.5%) and Pulau Pinang (878 establishments; CAGR: 12.8%).

W.P. Kuala Lumpur registered the highest contribution in terms of gross output of RM124.2 billion with an annual growth rate of 6.1 per cent, followed by Selangor (RM57.2 billion; CAGR: 6.8%) and Pulau Pinang (RM5.2 billion; CAGR: 5.1%). In consistent with the gross output performance, W.P. Kuala Lumpur also contributed the highest value added at RM68.5 billion, recording an annual growth rate of 4.5 per cent, followed by Selangor (RM30.0 billion; CAGR: 6.3%) and Pulau Pinang (RM2.5 billion; CAGR: 4.4%).

The highest number of persons engaged in these services were in W.P. Kuala Lumpur with 126,191 persons, recorded an annual growth rate of 3.5 per cent, followed by Selangor (101,048 persons; CAGR: 2.8%) and Pulau Pinang (11,560 persons; CAGR: 0.8%). During the same period, the highest salaries & wages were also recorded by W.P. Kuala Lumpur at RM10.5 billion (CAGR: 8.0%), followed by Selangor and Pulau Pinang with RM8.0 billion (CAGR: 7.2%) and RM0.4 billion (CAGR: 2.3%), respectively. Meanwhile, the largest fixed assets held by establishment in the Information and Communication Services sector in 2022 was in W.P. Kuala Lumpur at RM84.0 billion with an annual growth rate of 5.3 per cent, followed by Selangor RM21.4 billion (CAGR: 2.9%) and Pulau Pinang RM5.1 billion (CAGR: 2.4%).

**Exhibit 17: Number of Establishments, Value of Gross Output, Value of Intermediate Input, Value Added, Number of Persons Engaged, Salaries & Wages and Fixed Assets for Information and Communication Services by States, 2022**

	NUMBER OF ESTABLISHMENTS	VALUE OF GROSS OUTPUT (RM Million)	VALUE OF INTERMEDIATE INPUT (RM Million)	VALUE ADDED (RM Million)	NUMBER OF PERSONS ENGAGED (Person)	SALARIES & WAGES (RM Million)	VALUE OF FIXED ASSETS (RM Million)
 <b>Johor</b>	824 (16.3%)	916.7 (4.9%)	467.0 (4.9%)	449.7 (4.9%)	3,771 (2.1%)	119.6 (4.0%)	864.3 (8.2%)
 <b>Kedah</b>	168 (17.6%)	109.2 (3.9%)	58.5 (3.2%)	50.7 (4.8%)	538 (1.3%)	17.7 (3.2%)	42.7 (2.1%)
 <b>Kelantan</b>	41 (19.2%)	5.4 (7.6%)	3.1 (7.0%)	2.3 (8.5%)	74 (7.7%)	1.3 (8.5%)	0.5 (5.5%)
 <b>Melaka</b>	217 (13.9%)	176.1 (5.5%)	85.0 (4.6%)	91.1 (6.5%)	709 (4.2%)	17.2 (7.0%)	73.5 (4.0%)
 <b>Negeri Sembilan</b>	197 (25.1%)	169.8 (2.7%)	86.6 (2.6%)	83.2 (2.8%)	499 (1.8%)	19.3 (4.1%)	58.6 (2.7%)
 <b>Pahang</b>	76 (15.9%)	202.2 (9.1%)	66.5 (9.0%)	135.8 (9.1%)	349 (5.3%)	8.8 (3.4%)	562.6 (9.3%)
 <b>Pulau Pinang</b>	878 (12.8%)	5,245.4 (5.1%)	2,731.9 (4.4%)	2,513.5 (6.1%)	11,560 (0.8%)	375.3 (2.3%)	5,102.8 (2.4%)
 <b>Perak</b>	350 (14.2%)	423.5 (3.5%)	254.4 (3.6%)	169.1 (3.3%)	1,156 (2.3%)	43.6 (3.9%)	120.9 (1.3%)
 <b>Perlis</b>	20 (16.2%)	3.0 (5.0%)	1.7 (4.1%)	1.3 (6.3%)	48 (6.0%)	1.2 (7.2%)	1.6 (2.6%)
 <b>Selangor</b>	8,331 (10.9%)	57,212.2 (6.8%)	27,246.1 (6.3%)	29,966.2 (7.2%)	101,048 (2.8%)	8,037.5 (7.2%)	21,447.5 (2.9%)
 <b>Terengganu</b>	79 (28.0%)	25.2 (6.5%)	12.3 (6.2%)	12.8 (6.8%)	232 (2.8%)	7.6 (7.0%)	13.0 (5.0%)
 <b>Sabah</b>	268 (23.0%)	276.5 (2.9%)	160.2 (2.8%)	116.2 (3.0%)	1,138 (2.4%)	30.5 (3.6%)	238.8 (3.2%)
 <b>Sarawak</b>	316 (19.1%)	1,004.5 (3.4%)	485.0 (2.9%)	519.5 (3.9%)	2,9114 (3.0%)	117.0 (8.7%)	1,457.5 (5.0%)
 <b>W.P. Kuala Lumpur</b>	7,092 (14.5%)	124,248.4 (6.1%)	55,753.1 (4.5%)	68,495.2 (7.5%)	126,191 (3.5%)	10,488.5 (8.0%)	83,995.2 (5.3%)
 <b>W.P. Labuan</b>	13 (18.3%)	3.8 (4.8%)	1.0 (4.2%)	2.8 (5.1%)	19 (5.6%)	0.4 (4.9%)	0.5 (8.1%)
 <b>W.P. Putrajaya</b>	33 (14.2%)	89.6 (8.8%)	49.1 (8.7%)	40.5 (8.9%)	266 (3.4%)	10.7 (5.9%)	39.3 (2.6%)
 <b>Malaysia</b>	<b>18,903</b> (13.1%)	<b>190,111.5</b> (6.2%)	<b>87,461.6</b> (5.0%)	<b>102,649.9</b> (7.3%)	<b>250,509</b> (3.0%)	<b>19,296.0</b> (7.5%)	<b>114,019.2</b> (4.7%)

CAGR: 2022/2015



Bahagian | *Part*  
**3**

Jadual Statistik  
*Statistical Tables*



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**Jadual 1.1: Statistik Utama Perkhidmatan Maklumat dan Komunikasi, 2010, 2015 dan 2022***Table 1.1: Principal Statistics of Information and Communication Services, 2010, 2015 and 2022*

<b>Tahun</b> <i>Year</i>	<b>Bilangan pertubuhan</b> <i>Number of establishments</i>	<b>Nilai output kasar</b> <i>Value of gross output</i>	<b>Nilai input perantaraan</b> <i>Value of intermediate input</i>	<b>Nilai ditambah</b> <i>Value added</i>	<b>Bilangan pekerja</b> <i>Number of persons engaged</i>	<b>Gaji &amp; upah</b> <i>Salaries &amp; wages</i>	<b>Nilai harta tetap</b> <i>Value of fixed assets</i>
		<b>(RM '000)</b>	<b>(RM '000)</b>	<b>(RM '000)</b>		<b>(RM '000)</b>	<b>(RM '000)</b>
2022	18,903	190,111,510	87,461,602	102,649,908	250,509	19,295,969	114,019,173
2015	8,008	124,606,402	62,047,504	62,558,898	203,017	11,659,440	82,778,363
2010	2,379	81,881,422	39,785,471	42,095,951	131,127	6,391,430	30,038,060



Jadual 1.2: Statistik Utama Perkhidmatan Maklumat dan Komunikasi mengikut Aktiviti, 2022

Table 1.2: Principal Statistics of Information and Communication Services by Activity, 2022

Aktiviti <i>Activity</i>	Bilangan pertubuhan <i>Number of establishments</i>	Nilai output kasar <i>Value of gross output</i>	Nilai input perantaraan <i>Value of intermediate input</i>	Nilai ditambah <i>Value added</i>	Bilangan pekerja <i>Number of persons engaged</i>	Gaji & upah <i>Salaries &amp; wages</i>	Nilai harta tetap <i>Value of fixed assets</i>
		(RM '000)	(RM '000)	(RM '000)		(RM '000)	(RM '000)
<b>Jumlah</b> <i>Total</i>	<b>18,903</b>	<b>190,111,510</b>	<b>87,461,602</b>	<b>102,649,908</b>	<b>250,509</b>	<b>19,295,969</b>	<b>114,019,173</b>
<b>Penerbitan</b> <i>Publishing</i>	1,831	5,593,228	2,787,151	2,806,077	17,164	826,126	1,951,197
<b>Penerbitan wayang gambar, video dan program televisyen rakaman bunyi dan penerbitan muzik</b> <i>Motion picture, video and television programme production, sound recording and music publishing</i>	2,054	4,298,434	1,953,614	2,344,820	16,169	708,310	2,574,734
<b>Pemrograman dan penyiaran</b> <i>Programming and broadcasting</i>	85	9,621,887	5,984,232	3,637,656	7,558	743,589	6,702,187
<b>Perkhidmatan telekomunikasi</b> <i>Telecommunication services</i>	2,426	120,966,308	51,011,108	69,955,200	68,837	7,047,452	87,184,531
<b>Pengaturcaraan komputer, perundingan dan aktiviti yang berkaitan</b> <i>Computer programming, consultancy and related activities</i>	10,501	41,258,481	22,192,443	19,066,038	122,949	8,536,688	14,197,567
<b>Perkhidmatan maklumat</b> <i>Information services</i>	2,006	8,373,172	3,533,054	4,840,118	17,832	1,433,805	1,408,957

**Jadual 1.3: Statistik Utama Perkhidmatan Maklumat dan Komunikasi mengikut Negeri, 2022**

*Table 1.3: Principal Statistics of Information and Communication Services by State, 2022*

<b>Negeri</b> <i>State</i>	<b>Bilangan pertubuhan</b> <i>Number of establishments</i>	<b>Nilai output kasar</b> <i>Value of gross output</i>	<b>Nilai input perantaraan</b> <i>Value of intermediate input</i>	<b>Nilai ditambah</b> <i>Value added</i>	<b>Bilangan pekerja</b> <i>Number of persons engaged</i>	<b>Gaji &amp; upah</b> <i>Salaries &amp; wages</i>	<b>Nilai harta tetap</b> <i>Value of fixed assets</i>
		<b>(RM '000)</b>	<b>(RM '000)</b>	<b>(RM '000)</b>		<b>(RM '000)</b>	<b>(RM '000)</b>
<b>Jumlah</b> <i>Total</i>	<b>18,903</b>	<b>190,111,510</b>	<b>87,461,602</b>	<b>102,649,908</b>	<b>250,509</b>	<b>19,295,969</b>	<b>114,019,173</b>
<b>Johor</b>	824	916,709	466,990	449,719	3,771	119,567	864,258
<b>Kedah</b>	168	109,205	58,524	50,681	538	17,673	42,724
<b>Kelantan</b>	41	5,431	3,128	2,302	74	1,308	484
<b>Melaka</b>	217	176,084	84,980	91,104	709	17,176	73,479
<b>Negeri Sembilan</b>	197	169,813	86,650	83,164	499	19,349	58,568
<b>Pahang</b>	76	202,246	66,494	135,752	349	8,771	562,551
<b>Pulau Pinang</b>	878	5,245,385	2,731,896	2,513,490	11,560	375,315	5,102,774
<b>Perak</b>	350	423,506	254,359	169,146	1,156	43,590	120,859
<b>Perlis</b>	20	3,012	1,680	1,332	48	1,152	1,584
<b>Selangor</b>	8,331	57,212,248	27,246,095	29,966,153	101,048	8,037,469	21,447,511
<b>Terengganu</b>	79	25,166	12,326	12,840	232	7,555	13,047
<b>Sabah</b>	268	276,461	160,241	116,221	1,138	30,478	238,792
<b>Sarawak</b>	316	1,004,524	485,046	519,478	2,911	117,008	1,457,513
<b>W.P. Kuala Lumpur</b>	7,092	124,248,353	55,753,128	68,495,225	126,191	10,488,499	83,995,233
<b>W.P. Labuan</b>	13	3,794	1,012	2,781	19	391	459
<b>W.P. Putrajaya</b>	33	89,571	49,052	40,519	266	10,670	39,337

Jadual 1.4: Statistik Utama Perkhidmatan Maklumat dan Komunikasi mengikut Taraf Sah, 2022

Table 1.4: Principal Statistics of Information and Communication Services by Legal Status, 2022

Taraf sah <i>Legal status</i>	Bilangan pertubuhan <i>Number of establishments</i>	Nilai output kasar <i>Value of gross output</i>	Nilai input perantaraan <i>Value of intermediate input</i>	Nilai ditambah <i>Value added</i>	Bilangan pekerja <i>Number of persons engaged</i>	Gaji & upah <i>Salaries &amp; wages</i>	Nilai harta tetap <i>Value of fixed assets</i>
		(RM '000)	(RM '000)	(RM '000)		(RM '000)	(RM '000)
<b>Jumlah</b> <i>Total</i>	<b>18,903</b>	<b>190,111,510</b>	<b>87,461,602</b>	<b>102,649,908</b>	<b>250,509</b>	<b>19,295,969</b>	<b>114,019,173</b>
<b>Hak milik perseorangan</b> <i>Individual proprietorship</i>	1,806	1,355,080	752,672	602,408	5,932	265,015	424,441
<b>Perkongsian</b> <i>Partnership</i>	412	401,649	226,469	175,180	1,459	60,577	135,137
<b>Perkongsian liabiliti terhad</b> <i>Limited liabilities partnership</i>	274	237,162	95,389	141,772	1,087	57,821	47,621
<b>Syarikat sendirian berhad</b> <i>Private limited company</i>	16,218	156,956,508	71,273,057	85,683,451	210,985	15,808,817	93,225,308
<b>Syarikat awam berhad</b> <i>Public limited company</i>	164	30,760,255	14,947,449	15,812,806	30,064	3,044,066	20,109,463
<b>Perbadanan awam</b> <i>Public corporation</i>	25	400,049	166,228	233,821	964	59,071	76,872
<b>Pertubuhan persendirian yang tidak mencari keuntungan</b> <i>Private non-profit making organisation</i>	4	807	337	470	18	600	331

**Jadual 1.5: Statistik Utama Perkhidmatan Maklumat dan Komunikasi mengikut Hak Milik, 2022**

*Table 1.5: Principal Statistics of Information and Communication Services by Ownership, 2022*

<b>Hak milik</b> <i>Ownership</i>	<b>Bilangan pertubuhan</b> <i>Number of establishments</i>	<b>Nilai output kasar</b> <i>Value of gross output</i>	<b>Nilai input perantaraan</b> <i>Value of intermediate input</i>	<b>Nilai ditambah</b> <i>Value added</i>	<b>Bilangan pekerja</b> <i>Number of persons engaged</i>	<b>Gaji &amp; upah</b> <i>Salaries &amp; wages</i>	<b>Nilai harta tetap</b> <i>Value of fixed assets</i>
		(RM '000)	(RM '000)	(RM '000)		(RM '000)	(RM '000)
<b>Jumlah</b> <i>Total</i>	<b>18,903</b>	<b>190,111,510</b>	<b>87,461,602</b>	<b>102,649,908</b>	<b>250,509</b>	<b>19,295,969</b>	<b>114,019,173</b>
<b>Residen Malaysia</b> <i>Malaysian residents</i>	18,844	185,594,406	85,842,867	99,751,539	236,891	18,154,171	113,292,625
<b>Bukan residen Malaysia</b> <i>Non-Malaysian residents</i>	51	4,368,596	1,545,493	2,823,103	13,514	1,135,104	599,110
<b>Hak milik bersama</b> <i>Joint ownership</i>	8	148,507	73,241	75,266	104	6,694	127,438

Jadual 1.6: Bilangan Pekerja bagi Perkhidmatan Maklumat dan Komunikasi mengikut Aktiviti, 2022

Table 1.6: Number of Persons Engaged in the Information and Communication Services by Activity, 2022

Aktiviti Activity	Bilangan pertubuhan Number of establishments	Bilangan pekerja Number of persons engaged			
		Jumlah Total	Pemilik yang bekerja & rakan niaga yang aktif dan pekerja keluarga tanpa gaji Working proprietor & active business partners and unpaid family worker	Pekerja bergaji (sepenuh masa) Paid employees (full-time)	Pekerja bergaji (sambilan) Paid employees (part-time)
<b>Jumlah</b> Total	<b>18,903</b>	<b>250,509</b>	<b>908</b>	<b>246,752</b>	<b>2,849</b>
<b>Penerbitan</b> Publishing	1,831	17,164	135	16,857	172
<b>Penerbitan wayang gambar, video dan program televisyen rakaman bunyi dan penerbitan muzik</b> Motion picture, video and television programme production, sound recording and music publishing	2,054	16,169	129	15,116	924
<b>Pemrograman dan penyiaran</b> Programming and broadcasting	85	7,558	-	7,523	35
<b>Perkhidmatan telekomunikasi</b> Telecommunication services	2,426	68,837	273	67,986	578
<b>Pengaturcaraan komputer, perundingan dan aktiviti yang berkaitan</b> Computer programming, consultancy and related activities	10,501	122,949	251	121,962	736
<b>Perkhidmatan maklumat</b> Information services	2,006	17,832	120	17,308	404

**Jadual 1.7: Bilangan Pekerja dan Gaji & Upah bagi Perkhidmatan Maklumat dan Komunikasi mengikut Kategori Pekerja, 2022**  
 Table 1.7: Number of Persons Engaged and Salaries & Wages in the Information and Communication Services by Category of Workers, 2022

Kategori pekerja <i>Category of worker</i>	Bilangan pekerja <i>Number of persons engaged</i>			Gaji & upah <i>Salaries &amp; wages</i>  (RM '000)
	Jumlah <i>Total</i>	Lelaki <i>Male</i>	Perempuan <i>Female</i>	
<b>Jumlah</b> <i>Total</i>	<b>250,509</b>	<b>152,398</b>	<b>98,111</b>	<b>19,295,969</b>
<b>Jumlah pemilik yang bekerja &amp; rakan niaga yang aktif dan pekerja keluarga tanpa gaji</b> <i>Total working proprietor &amp; active business partners and unpaid family workers</i>	<b>908</b>	<b>782</b>	<b>126</b>	<b>-</b>
<b>Pemilik yang bekerja dan rakan niaga yang aktif</b> <i>Working proprietor and active business partners</i>	<b>807</b>	719	88	-
<b>Pekerja keluarga tanpa gaji (semua ahli keluarga dan rakan yang tidak menerima upah yang tetap)</b> <i>Unpaid family workers (all members of family and friends not receiving regular wages)</i>	<b>101</b>	63	38	-
<b>Jumlah pekerja bergaji (sepenuh masa)</b> <i>Total paid employees (full-time)</i>	<b>246,752</b>	<b>149,632</b>	<b>97,120</b>	<b>19,231,999</b>
<b>Pengurus</b> <i>Managers</i>	<b>32,633</b>	21,764	10,869	5,050,278
<b>Profesional</b> <i>Professionals</i>	<b>60,119</b>	38,332	21,787	6,923,829
<b>Profesional (kecuali Penyelidik)</b> <i>Professionals (except Researcher)</i>	<b>56,564</b>	36,242	20,322	6,503,249
<b>Penyelidik</b> <i>Researcher</i>	<b>3,555</b>	2,090	1,465	420,579
<b>Juruteknik dan profesional bersekutu</b> <i>Technicians and associate professionals</i>	<b>51,979</b>	38,801	13,178	3,576,965
<b>Pekerja sokongan perkeranian</b> <i>Clerical support workers</i>	<b>35,628</b>	11,470	24,158	1,505,065
<b>Pekerja perkhidmatan dan jualan</b> <i>Service and sales workers</i>	<b>24,479</b>	12,833	11,646	998,117
<b>Pekerja kemahiran dan pekerja pertukangan yang berkaitan</b> <i>Craft and related trades workers</i>	<b>9,627</b>	8,201	1,426	366,630
<b>Operator mesin, loji dan pemasang</b> <i>Plant and machine operators, and assemblers</i>	<b>8,587</b>	4,809	3,778	254,311
<b>Pekerjaan asas</b> <i>Elementary occupations</i>	<b>23,700</b>	13,422	10,278	556,805
<b>Pekerja bergaji (sambilan)</b> <i>Paid employees (part-time)</i>	<b>2,849</b>	<b>1,984</b>	<b>865</b>	<b>63,970</b>

**Jadual 1.8: Bilangan Pekerja bagi Perkhidmatan Maklumat dan Komunikasi mengikut Kategori Pekerja dan Kewarganegaraan, 2022**  
 Table 1.8: Number of Persons Engaged in the Information and Communication Services by Category of Workers and Citizenship, 2022

Kategori pekerja <i>Category of worker</i>	Bilangan pekerja <i>Number of persons engaged</i>		
	Jumlah <i>Total</i>	Warganegara <i>Citizen</i>	Bukan Warganegara <i>Non-citizen</i>
<b>Jumlah</b> <i>Total</i>	<b>250,509</b>	<b>246,643</b>	<b>3,866</b>
<b>Jumlah pemilik yang bekerja &amp; rakan niaga yang aktif dan pekerja keluarga tanpa gaji</b> <i>Total working proprietor &amp; active business partners and unpaid family workers</i>	<b>908</b>	<b>908</b>	<b>-</b>
<b>Pemilik yang bekerja dan rakan niaga yang aktif</b> <i>Working proprietor and active business partners</i>	<b>807</b>	<b>807</b>	<b>-</b>
<b>Pekerja keluarga tanpa gaji (semua ahli keluarga dan rakan yang tidak menerima upah yang tetap)</b> <i>Unpaid family workers (all members of family and friends not receiving regular wages)</i>	<b>101</b>	<b>101</b>	<b>-</b>
<b>Jumlah pekerja bergaji (sepenuh masa)</b> <i>Total paid employees (full-time)</i>	<b>246,752</b>	<b>242,886</b>	<b>3,866</b>
<b>Pengurus</b> <i>Managers</i>	<b>32,633</b>	<b>32,147</b>	<b>486</b>
<b>Profesional</b> <i>Professionals</i>	<b>60,119</b>	<b>58,579</b>	<b>1,540</b>
<b>Profesional (kecuali Penyelidik)</b> <i>Professionals (except Researcher)</i>	<b>56,564</b>	<b>55,198</b>	<b>1,366</b>
<b>Penyelidik</b> <i>Researcher</i>	<b>3,555</b>	<b>3,381</b>	<b>174</b>
<b>Juruteknik dan profesional bersekutu</b> <i>Technicians and associate professionals</i>	<b>51,979</b>	<b>50,701</b>	<b>1,278</b>
<b>Pekerja sokongan perkeranian</b> <i>Clerical support workers</i>	<b>35,628</b>	<b>35,546</b>	<b>82</b>
<b>Pekerja perkhidmatan dan jualan</b> <i>Service and sales workers</i>	<b>24,479</b>	<b>24,414</b>	<b>65</b>
<b>Pekerja kemahiran dan pekerja pertukangan yang berkaitan</b> <i>Craft and related trades workers</i>	<b>9,627</b>	<b>9,541</b>	<b>86</b>
<b>Operator mesin, loji dan pemasang</b> <i>Plant and machine operators, and assemblers</i>	<b>8,587</b>	<b>8,352</b>	<b>235</b>
<b>Pekerjaan asas</b> <i>Elementary occupations</i>	<b>23,700</b>	<b>23,606</b>	<b>94</b>
<b>Pekerja bergaji (sambilan)</b> <i>Paid employees (part-time)</i>	<b>2,849</b>	<b>2,849</b>	<b>-</b>

**Jadual 1.9: Bilangan Pekerja Bergaji Sepenuh Masa bagi Perkhidmatan Maklumat dan Komunikasi mengikut Aktiviti dan Kategori Kemahiran Pekerja, 2022**  
*Table 1.9: Number of Full-Time Paid Employees in the Information and Communication Services by Activity and Category of Skilled Workers, 2022*

Aktiviti <i>Activity</i>	Mahir/ <i>High-Skilled*</i>		Separuh Mahir/ <i>Semi-Skilled**</i>		Berkemahiran Rendah/ <i>Low-Skilled***</i>	
	Bilangan pekerja <i>Number of persons engaged</i>	Gaji & upah <i>Salaries &amp; wages</i>	Bilangan pekerja <i>Number of persons engaged</i>	Gaji & upah <i>Salaries &amp; wages</i>	Bilangan pekerja <i>Number of persons engaged</i>	Gaji & upah <i>Salaries &amp; wages</i>
		(RM '000)		(RM '000)		(RM '000)
<b>Jumlah</b> <i>Total</i>	<b>144,731</b>	<b>15,551,072</b>	<b>78,321</b>	<b>3,124,122</b>	<b>23,700</b>	<b>556,805</b>
<b>Penerbitan</b> <i>Publishing</i>	7,373	491,381	7,672	277,007	1,812	53,993
<b>Penerbitan wayang gambar, video dan program televisyen rakaman bunyi dan penerbitan muzik</b> <i>Motion picture, video and television programme production, sound recording and music publishing</i>	7,871	447,724	5,191	194,696	2,054	50,104
<b>Pemrograman dan penyiaran</b> <i>Programming and broadcasting</i>	4,719	628,410	2,092	95,016	712	19,300
<b>Perkhidmatan telekomunikasi</b> <i>Telecommunication services</i>	35,742	5,211,920	27,930	1,668,076	4,314	149,574
<b>Pengaturcaraan komputer, perundingan dan aktiviti yang berkaitan</b> <i>Computer programming, consultancy and related activities</i>	78,197	7,639,060	30,878	657,455	12,887	225,176
<b>Perkhidmatan maklumat</b> <i>Information services</i>	10,829	1,132,578	4,558	231,872	1,921	58,657

\* Termasuk pengurus, profesional dan juruteknik & profesional bersekutu  
*Includes managers & professionals and technicians & associate professionals*

\*\* Termasuk pekerja sokongan perkeranian, pekerja perkhidmatan & jualan, pekerja kemahiran & pekerja pertukangan yang berkaitan dan operator mesin & loji dan pemasang  
*Includes clerical support workers, service & sales workers, craft & related trades workers and plant & machine operators and assemblers*

\*\*\* Termasuk pekerja asas  
*Includes elementary occupations*



**Jadual 1.10: Bilangan Pekerja bagi Perkhidmatan Maklumat dan Komunikasi mengikut Sijil Tertinggi Diperoleh dan Jantina, 2022**

Table 1.10: Number of Persons Engaged in the Information and Communication Services by Highest Certificate Obtained and Sex, 2022

Kelulusan <i>Qualification</i>	Jumlah pekerja <i>Total employment</i>	Bilangan pekerja <i>Number of persons engaged</i>	
		Lelaki <i>Male</i>	Perempuan <i>Female</i>
<b>Jumlah</b> <i>Total</i>	<b>250,509</b>	<b>152,398</b>	<b>98,111</b>
<b>Pascasiswazah</b> <i>Postgraduate</i>	10,091	6,196	3,895
<b>Ijazah sarjana muda/ Diploma lanjutan atau yang setaraf</b> <i>Bachelor/ Advanced diploma or equivalent</i>	81,792	53,177	28,615
<b>Diploma</b> <i>Diploma</i>	55,693	35,784	19,909
<b>STPM atau yang setaraf</b> <i>STPM or equivalent</i>	12,309	7,342	4,967
<b>Sijil</b> <i>Certificate</i>	20,521	12,631	7,890
<b>SPM/ SPM (V) atau yang setaraf</b> <i>SPM/ SPM (V) or equivalent</i>	63,533	34,750	28,783
<b>Di bawah taraf kelulusan SPM/ SPM (V)</b> <i>Below SPM/ SPM (V) qualification</i>	6,570	2,518	4,052

**Jadual 1.11: Bilangan Pekerja bagi Perkhidmatan Maklumat dan Komunikasi mengikut Aktiviti dan Sijil Tertinggi Diperoleh, 2022**  
 Table 1.11: Number of Persons Engaged in the Information and Communication Services by Activity and Highest Certificate Obtained, 2022

<b>Aktiviti</b> <i>Activity</i>	<b>Pascasiswazah</b> <i>Postgraduate</i>	<b>Ijazah sarjana muda/ Diploma lanjutan atau yang setaraf</b> <i>Bachelor/Advanced diploma or equivalent</i>	<b>Diploma</b> <i>Diploma</i>	<b>STPM atau yang setaraf</b> <i>STPM or equivalent</i>	<b>Sijil</b> <i>Certificate</i>	<b>SPM/SPM (V) atau yang setaraf</b> <i>SPM/SPM (V) or equivalent</i>	<b>Di bawah taraf kelulusan SPM/SPM (V)</b> <i>Below SPM/ SPM (V) qualification</i>
<b>Jumlah</b> <i>Total</i>	<b>10,091</b>	<b>81,792</b>	<b>55,693</b>	<b>12,309</b>	<b>20,521</b>	<b>63,533</b>	<b>6,570</b>
<b>Penerbitan</b> <i>Publishing</i>	558	4,973	3,886	1,607	1,205	4,431	504
<b>Penerbitan wayang gambar, video dan program televisyen rakaman bunyi dan penerbitan muzik</b> <i>Motion picture, video and television programme production, sound recording and music publishing</i>	321	4,893	5,212	558	1,206	3,595	384
<b>Pemrograman dan penyiaran</b> <i>Programming and broadcasting</i>	298	2,975	852	409	535	2,438	51
<b>Perkhidmatan telekomunikasi</b> <i>Telecommunication services</i>	2,791	21,019	16,304	2,484	4,919	19,752	1,568
<b>Pengaturcaraan komputer, perundingan dan aktiviti yang berkaitan</b> <i>Computer programming, consultancy and related activities</i>	5,376	42,690	25,721	6,341	10,643	28,581	3,597
<b>Perkhidmatan maklumat</b> <i>Information services</i>	747	5,242	3,718	910	2,013	4,736	466

Jadual 1.12: Nilai Harta Tetap Perkhidmatan Maklumat dan Komunikasi mengikut Aktiviti, 2022

Table 1.12: Value of Fixed Assets of Information and Communication Services by Activity, 2022

Aktiviti <i>Activity</i>	Nilai buku bersih seperti pada 01.01.2022 <i>Net book value as at 01.01.2022</i>	Perbelanjaan modal <i>Capital expenditure</i>	Pelupusan <i>Disposal</i>	Susut nilai semasa <i>Current depreciation</i>	Nilai buku bersih seperti pada 31.12.2022 <i>Net book value as at 31.12.2022</i>	Sewa yang dibayar dalam tahun 2022 <i>Rent paid during 2022</i>
	(RM '000)	(RM '000)	(RM '000)	(RM '000)	(RM '000)	(RM '000)
<b>Jumlah</b> <i>Total</i>	<b>104,978,868</b>	<b>13,522,022</b>	<b>152,403</b>	<b>4,318,342</b>	<b>114,019,173</b>	<b>1,760,896</b>
<b>Penerbitan</b> <i>Publishing</i>	1,903,996	110,881	2,761	60,914	1,951,197	67,195
<b>Penerbitan wayang gambar, video dan program televisyen rakaman bunyi dan penerbitan muzik</b> <i>Motion picture, video and television programme production, sound recording and music publishing</i>	2,660,788	36,692	4,849	119,623	2,574,734	62,596
<b>Pemrograman dan penyiaran</b> <i>Programming and broadcasting</i>	4,303,524	2,475,042	66	76,314	6,702,187	14,965
<b>Perkhidmatan telekomunikasi</b> <i>Telecommunication services</i>	81,711,032	9,109,308	78,608	3,544,812	87,184,531	1,024,158
<b>Pengaturcaraan komputer, perundingan dan aktiviti yang berkaitan</b> <i>Computer programming, consultancy and related activities</i>	13,100,126	1,583,705	15,077	471,000	14,197,567	488,804
<b>Perkhidmatan maklumat</b> <i>Information services</i>	1,299,401	206,393	51,042	45,680	1,408,957	103,177

**Jadual 1.13: Nilai Harta Tetap Perkhidmatan Maklumat dan Komunikasi mengikut Jenis Harta, 2022**

*Table 1.13: Value of Fixed Assets of Information and Communication Services by Type of Asset, 2022*

Jenis harta <i>Type of assets</i>	Nilai buku bersih seperti pada 01.01.2022 <i>Net book value as at 01.01.2022</i>	Perbelanjaan modal <i>Capital expenditure</i>	Pelupusan <i>Disposal</i>	Susut nilai semasa <i>Current depreciation</i>	Nilai buku bersih seperti pada 31.12.2022 <i>Net book value as at 31.12.2022</i>	Sewa yang dibayar dalam tahun 2022 <i>Rent paid during 2022</i>
	(RM '000)	(RM '000)	(RM '000)	(RM '000)	(RM '000)	(RM '000)
<b>Jumlah</b> <i>Total</i>	<b>104,978,868</b>	<b>13,522,022</b>	<b>152,403</b>	<b>4,318,342</b>	<b>114,019,173</b>	<b>1,760,896</b>
<b>Tanah</b> <i>Land</i>	2,696,477	-	-	15,881	2,680,596	328,352
<b>Bangunan dan binaan lain</b> <i>Buildings and other construction</i>	13,574,163	453,248	8,648	181,740	13,836,795	1,303,863
<b>Pembangunan tanah</b> <i>Land Improvement</i>	637	-	-	84	553	-
<b>Alat pengangkutan</b> <i>Transport equipment</i>	807,030	315,206	55,511	87,652	979,590	3,173
<b>Teknologi maklumat dan komunikasi</b> <i>Information and communications technology</i>	51,197,909	9,316,260	55,243	2,257,225	58,198,006	5,160
<b>Jentera dan kelengkapan</b> <i>Machinery and equipment</i>	33,298,822	3,164,040	13,336	1,581,469	34,869,018	64,762
<b>Perabot dan pemasangan</b> <i>Furniture and fittings</i>	1,759,963	244,344	13,600	107,509	1,883,177	3,244
<b>Harta lain</b> <i>Other assets</i>	1,643,867	28,925	6,064	86,780	1,571,438	52,343

**Jadual 1.14: Statistik Utama Pertubuhan Milikan Wanita Perkhidmatan Maklumat dan Komunikasi mengikut Aktiviti, 2022**

Table 1.14: Principal Statistics of Women-owned Establishments in Information and Communication Services by Activity, 2022

Aktiviti <i>Activity</i>	Bilangan pertubuhan <i>Number of establishments</i>	Nilai output kasar <i>Value of gross output</i>	Nilai input perantara <i>Value of intermediate input</i>	Nilai ditambah <i>Value added</i>	Bilangan pekerja <i>Number of persons engaged</i>	Gaji & upah <i>Salaries &amp; wages</i>	Nilai harta tetap <i>Value of fixed assets</i>
		(RM '000)	(RM '000)	(RM '000)		(RM '000)	(RM '000)
<b>Jumlah</b> <i>Total</i>	<b>1,739</b>	<b>2,181,396</b>	<b>1,161,037</b>	<b>1,020,359</b>	<b>9,177</b>	<b>458,975</b>	<b>477,388</b>
<b>Penerbitan</b> <i>Publishing</i>	249	345,306	168,914	176,392	1,020	46,403	59,296
<b>Penerbitan wayang gambar, video dan program televisyen rakaman bunyi dan penerbitan muzik</b> <i>Motion picture, video and television programme production, sound recording and music publishing</i>	276	349,429	184,963	164,466	1,646	71,634	92,995
<b>Pemrograman dan penyiaran</b> <i>Programming and broadcasting</i>							
<b>Perkhidmatan telekomunikasi</b> <i>Telecommunication services</i>	223	293,276	152,619	140,657	1317	81,674	34,481
<b>Pengaturcaraan komputer, perundingan dan aktiviti yang berkaitan</b> <i>Computer programming, consultancy and related activities</i>	801	1,006,227	560,756	445,471	4501	222,869	266,391
<b>Perkhidmatan maklumat</b> <i>Information services</i>	190	187,158	93,784	93,374	693	36,395	24,225

**Jadual 1.15: Statistik Utama Pertubuhan Milikan Wanita Perkhidmatan Maklumat dan Komunikasi mengikut Negeri, 2022**

*Table 1.15: Principal Statistics of Women-owned Establishments in Information and Communication Services by State, 2022*

Negeri State	Bilangan pertubuhan Number of establishments	Nilai output kasar Value of gross output (RM '000)	Nilai input perantaraan Value of intermediate input (RM '000)	Nilai ditambah Value added (RM '000)	Bilangan pekerja Number of persons engaged	Gaji & upah Salaries & wages (RM '000)	Nilai harta tetap Value of fixed assets (RM '000)	
<b>Jumlah Total</b>	<b>1,739</b>	<b>2,181,396</b>	<b>1,161,037</b>	<b>1,020,359</b>	<b>9,177</b>	<b>458,975</b>	<b>477,388</b>	
<b>Johor</b>	85	48,987	23,831	25,156	250	7,643	7,066	
<b>Kedah</b>	}	32	12,353	6,399	5,954	91	3,300	2,396
<b>Perlis</b>								
<b>Kelantan</b>	5	1,113	735	378	15	274	156	
<b>Melaka</b>	25	8,082	3,136	4,946	61	1,275	2,124	
<b>Negeri Sembilan</b>	28	18,551	4,682	13,869	65	2,021	5,832	
<b>Pahang</b>	13	27,837	17,874	9,962	38	1,199	20,934	
<b>Pulau Pinang</b>	78	70,422	22,429	47,993	388	11,620	21,097	
<b>Perak</b>	59	29,122	16,634	12,488	147	5,695	3,714	
<b>Selangor</b>	733	1,011,062	529,949	481,113	3878	242,785	240,729	
<b>Terengganu</b>	7	7,449	1,885	5,564	35	1,119	1,349	
<b>Sabah</b>	16	12,543	7,231	5,312	60	1,632	1,485	
<b>Sarawak</b>	8	9,052	3,358	5,694	48	1,835	2,203	
<b>W.P. Kuala Lumpur</b>	}	650	924,823	522,892	401,931	4,101	178,577	168,303
<b>W.P. Putrajaya</b>								

**Jadual 2.1: Statistik Utama Aktiviti Penerbitan, 2010, 2015 dan 2022**  
*Table 2.1: Principal Statistics of Publishing Activities, 2010, 2015 and 2022*

<b>Tahun</b> <i>Year</i>	<b>Bilangan pertubuhan</b> <i>Number of establishments</i>	<b>Nilai output kasar</b> <i>Value of gross output</i>	<b>Nilai input perantaraan</b> <i>Value of intermediate input</i>	<b>Nilai ditambah</b> <i>Value added</i>	<b>Bilangan pekerja</b> <i>Number of persons engaged</i>	<b>Gaji &amp; upah</b> <i>Salaries &amp; wages</i>	<b>Nilai harta tetap</b> <i>Value of fixed assets</i>
		<b>(RM '000)</b>	<b>(RM '000)</b>	<b>(RM '000)</b>		<b>(RM '000)</b>	<b>(RM '000)</b>
<b>2022</b>	1,831	5,593,228	2,787,151	2,806,077	17,164	826,126	1,951,197
<b>2015</b>	726	4,945,707	2,473,569	2,472,138	16,480	699,902	1,743,484
<b>2010</b>	128	1,018,043	514,963	503,080	4,671	164,699	232,911

**Jadual 2.2: Statistik Utama Aktiviti Penerbitan mengikut Kumpulan, 2022**

*Table 2.2: Principal Statistics of Publishing Activities by Group, 2022*

<b>Keterangan kumpulan</b> <i>Group description</i>	<b>Bilangan pertubuhan</b> <i>Number of establishments</i>	<b>Nilai output kasar</b> <i>Value of gross output</i>	<b>Nilai input perantaraan</b> <i>Value of intermediate input</i>	<b>Nilai ditambah</b> <i>Value added</i>	<b>Bilangan pekerja</b> <i>Number of persons engaged</i>	<b>Gaji &amp; upah</b> <i>Salaries &amp; wages</i>	<b>Nilai harta tetap</b> <i>Value of fixed assets</i>
		(RM '000)	(RM '000)	(RM '000)		(RM '000)	(RM '000)
<b>Jumlah</b> <i>Total</i>	<b>1,831</b>	<b>5,593,228</b>	<b>2,787,151</b>	<b>2,806,077</b>	<b>17,164</b>	<b>826,126</b>	<b>1,951,197</b>
<b>Penerbitan buku, brosur dan penerbitan lain</b> <i>Publishing of books, brochures and other publications</i>	489	1,169,246	609,672	559,574	4,767	201,107	457,073
<b>Penerbitan suratkhobar, jurnal, majalah dan penerbitan berkala dalam bentuk cetakan atau elektronik</b> <i>Publishing of newspapers, journals, magazines and periodicals in print or electronic form</i>	237	3,189,670	1,561,261	1,628,409	7,917	416,659	1,195,118
<b>Penerbitan perisian yang sedia cipta</b> <i>Publishing of ready-made software</i>	684	907,776	446,251	461,525	2,981	152,355	171,473
<b>Lain-lain penerbitan</b> <i>Others publishing</i>	421	326,536	169,968	156,568	1,499	56,005	127,533



Jadual 2.3: Statistik Utama Aktiviti Penerbitan mengikut Negeri, 2022

Table 2.3: Principal Statistics of Publishing Activities by State, 2022

Negeri State	Bilangan pertubuhan Number of establishments	Nilai output kasar Value of gross output	Nilai input perantaraan Value of intermediate input	Nilai ditambah Value added	Bilangan pekerja Number of persons engaged	Gaji & upah Salaries & wages	Nilai harta tetap Value of fixed assets
		(RM '000)	(RM '000)	(RM '000)		(RM '000)	(RM '000)
<b>Jumlah Total</b>	<b>1,831</b>	<b>5,593,228</b>	<b>2,787,151</b>	<b>2,806,077</b>	<b>17,164</b>	<b>826,126</b>	<b>1,951,197</b>
<b>Johor</b>	98	98,198	47,798	50,400	339	8,499	24,553
<b>Kedah</b>	31	8,937	4,453	4,484	35	1,414	2,657
<b>Kelantan</b>	7	665	339	326	11	142	44
<b>Melaka</b>	25	23,010	14,462	8,548	81	1,536	7,725
<b>Negeri Sembilan</b>	35	14,391	7,097	7,294	69	1,407	13,797
<b>Pahang</b>	21	9,397	3,181	6,216	39	680	9,190
<b>Pulau Pinang</b>	95	310,577	143,828	166,750	1,161	48,392	57,244
<b>Perak</b>	54	179,543	114,088	65,455	252	6,863	12,221
<b>Perlis</b>	4	1,078	663	415	12	393	445
<b>Selangor</b>	817	3,462,729	1,771,780	1,690,949	10,268	478,345	1,341,892
<b>Terengganu</b>	10	2,212	1,279	933	11	509	470
<b>Sabah</b>	23	28,162	15,539	12,623	102	3,171	3,734
<b>Sarawak</b>	53	279,916	157,929	121,986	852	37,865	23,310
<b>W.P. Kuala Lumpur</b>	551	1,149,282	490,204	659,078	3,849	233,949	447,376
<b>W.P. Labuan</b>	7	25,133	14,513	10,620	83	2,961	6,540
<b>W.P. Putrajaya</b>							

**Jadual 2.4: Statistik Utama Aktiviti Penerbitan mengikut Taraf Sah, 2022**

*Table 2.4: Principal Statistics of Publishing Activities by Legal Status, 2022*

<b>Taraf sah</b> <i>Legal Status</i>	<b>Bilangan pertubuhan</b> <i>Number of establishments</i>	<b>Nilai output kasar</b> <i>Value of gross output</i>	<b>Nilai input perantara</b> <i>Value of intermediate input</i>	<b>Nilai ditambah</b> <i>Value added</i>	<b>Bilangan pekerja</b> <i>Number of persons engaged</i>	<b>Gaji &amp; upah</b> <i>Salaries &amp; wages</i>	<b>Nilai harta tetap</b> <i>Value of fixed assets</i>
		(RM '000)	(RM '000)	(RM '000)		(RM '000)	(RM '000)
<b>Jumlah</b> <i>Total</i>	<b>1,831</b>	<b>5,593,228</b>	<b>2,787,151</b>	<b>2,806,077</b>	<b>17,164</b>	<b>826,126</b>	<b>1,951,197</b>
<b>Hak milik perseorangan</b> <i>Individual proprietorship</i>	301	332,242	161,931	170,311	797	34,078	125,804
<b>Perkongsian</b> <i>Partnership</i>	72	123,452	70,950	52,502	256	8,808	47,925
<b>Perkongsian liabiliti terhad</b> <i>Limited liabilities partnership</i>	43	18,758	6,699	12,059	159	8,138	12,662
<b>Syarikat sendirian berhad</b> <i>Private limited company</i>	1,382	3,674,305	1,755,288	1,919,018	11,866	539,139	1,319,131
<b>Syarikat awam berhad</b> <i>Public limited company</i>	25	1,437,880	788,162	649,718	4,046	234,797	434,983
<b>Perbadanan awam</b> <i>Public corporation</i>							
<b>Pertubuhan persendirian yang tidak mencari keuntungan</b> <i>Private non-profit making organisation</i>	8	6,591	4,122	2,469	40	1,164	10,692

**Jadual 2.5: Statistik Utama Aktiviti Penerbitan mengikut Hak Milik, 2022***Table 2.5: Principal Statistics of Publishing Activities by Ownership, 2022*

<b>Hak milik</b> <i>Ownership</i>	<b>Bilangan pertubuhan</b> <i>Number of establishments</i>	<b>Nilai output kasar</b> <i>Value of gross output</i>	<b>Nilai input perantaraan</b> <i>Value of intermediate input</i>	<b>Nilai ditambah</b> <i>Value added</i>	<b>Bilangan pekerja</b> <i>Number of persons engaged</i>	<b>Gaji &amp; upah</b> <i>Salaries &amp; wages</i>	<b>Nilai harta tetap</b> <i>Value of fixed assets</i>
		(RM '000)	(RM '000)	(RM '000)		(RM '000)	(RM '000)
<b>Jumlah</b> <i>Total</i>	<b>1,831</b>	<b>5,593,228</b>	<b>2,787,151</b>	<b>2,806,077</b>	<b>17,164</b>	<b>826,126</b>	<b>1,951,197</b>
<b>Residen Malaysia</b> <i>Malaysian residents</i>	1,827	5,572,200	2,771,097	2,801,103	17,125	824,550	1,949,969
<b>Bukan residen Malaysia</b> <i>Non-Malaysian residents</i>	4	21,028	16,054	4,974	39	1,575	1,229

**Jadual 2.6: Bilangan Pekerja dan Gaji & Upah bagi Aktiviti Penerbitan mengikut Kategori Pekerja, 2022**  
 Table 2.6: Number of Persons Engaged and Salaries & Wages in the Publishing Activities by Category of Workers, 2022

Kategori pekerja <i>Category of worker</i>	Bilangan pekerja <i>Number of persons engaged</i>			Gaji & upah <i>Salaries &amp; wages</i>  (RM '000)
	Jumlah <i>Total</i>	Lelaki <i>Male</i>	Perempuan <i>Female</i>	
<b>Jumlah</b> <i>Total</i>	<b>17,164</b>	<b>10,171</b>	<b>6,993</b>	<b>826,126</b>
<b>Jumlah pemilik yang bekerja &amp; rakan niaga yang aktif dan pekerja keluarga tanpa gaji</b> <i>Total working proprietor &amp; active business partners and unpaid family workers</i>	<b>135</b>	<b>110</b>	<b>25</b>	<b>-</b>
<b>Pemilik yang bekerja dan rakan niaga yang aktif</b> <i>Working proprietor and active business partners</i>	<b>113</b>	<b>96</b>	<b>17</b>	<b>-</b>
<b>Pekerja keluarga tanpa gaji (semua ahli keluarga dan rakan yang tidak menerima upah yang tetap)</b> <i>Unpaid family workers (all members of family and friends not receiving regular wages)</i>	<b>22</b>	<b>14</b>	<b>8</b>	<b>-</b>
<b>Jumlah pekerja bergaji (sepenuh masa)</b> <i>Total paid employees (full-time)</i>	<b>16,857</b>	<b>9,997</b>	<b>6,860</b>	<b>822,381</b>
<b>Pengurus</b> <i>Managers</i>	<b>1,605</b>	<b>1,276</b>	<b>329</b>	<b>183,418</b>
<b>Profesional</b> <i>Professionals</i>	<b>2,689</b>	<b>1,496</b>	<b>1,193</b>	<b>169,340</b>
<b>Profesional (kecuali Penyelidik)</b> <i>Professionals (except Researcher)</i>	<b>2,545</b>	<b>1,400</b>	<b>1,145</b>	<b>161,144</b>
<b>Penyelidik</b> <i>Researcher</i>	<b>144</b>	<b>96</b>	<b>48</b>	<b>8,196</b>
<b>Juruteknik dan profesional bersekutu</b> <i>Technicians and associate professionals</i>	<b>3,079</b>	<b>2,022</b>	<b>1,057</b>	<b>138,623</b>
<b>Pekerja sokongan perkeranian</b> <i>Clerical support workers</i>	<b>3,526</b>	<b>1,307</b>	<b>2,219</b>	<b>135,576</b>
<b>Pekerja perkhidmatan dan jualan</b> <i>Service and sales workers</i>	<b>2,063</b>	<b>1,105</b>	<b>958</b>	<b>75,119</b>
<b>Pekerja kemahiran dan pekerja pertukangan yang berkaitan</b> <i>Craft and related trades workers</i>	<b>817</b>	<b>664</b>	<b>153</b>	<b>27,737</b>
<b>Operator mesin, loji dan pemasang</b> <i>Plant and machine operators, and assemblers</i>	<b>1,266</b>	<b>1,024</b>	<b>242</b>	<b>38,576</b>
<b>Pekerjaan asas</b> <i>Elementary occupations</i>	<b>1,812</b>	<b>1,103</b>	<b>709</b>	<b>53,993</b>
<b>Pekerja bergaji (sambilan)</b> <i>Paid employees (part-time)</i>	<b>172</b>	<b>64</b>	<b>108</b>	<b>3,744</b>

**Jadual 2.7: Bilangan Pekerja bagi Aktiviti Penerbitan mengikut Kumpulan, 2022**

Table 2.7: Number of Persons Engaged in the Publishing Activities by Group, 2022

Keterangan kumpulan <i>Group description</i>	Bilangan pertubuhan <i>Number of establishments</i>		Bilangan pekerja <i>Number of persons engaged</i>		
			Jumlah <i>Total</i>	Pemilik yang bekerja & rakan niaga yang aktif dan pekerja keluarga tanpa gaji <i>Working proprietor &amp; active business partners and unpaid family worker</i>	Pekerja bergaji (sepenuh masa) <i>Paid employees (full-time)</i>
<b>Jumlah</b> <i>Total</i>	<b>1,831</b>	<b>17,164</b>	<b>135</b>	<b>16,857</b>	<b>172</b>
<b>Penerbitan buku, brosur dan penerbitan lain</b> <i>Publishing of books, brochures and other publications</i>	489	4,767	24	4,691	52
<b>Penerbitan suratkhbar, jurnal, majalah dan penerbitan berkala dalam bentuk cetakan atau elektronik</b> <i>Publishing of newspapers, journals, magazines and periodicals in print or electronic form</i>	237	7,917	67	7,787	63
<b>Penerbitan perisian yang sedia cipta</b> <i>Publishing of ready-made software</i>	684	2,981	20	2,929	32
<b>Lain-lain penerbitan</b> <i>Others publishing</i>	421	1,499	24	1,450	25

**Jadual 3.1: Statistik Utama Aktiviti Penerbitan Wayang Gambar, Video dan Program Televisyen, Rakaman Bunyi dan Penerbitan Muzik, 2010, 2015 dan 2022***Table 3.1: Principal Statistics of Motion Picture, Video and Television Programme Production, Sound Recording and Music Publishing Activities, 2010, 2015 and 2022*

<b>Tahun</b> <i>Year</i>	<b>Bilangan pertubuhan</b> <i>Number of establishments</i>	<b>Nilai output kasar</b> <i>Value of gross output</i>	<b>Nilai input perantaraan</b> <i>Value of intermediate input</i>	<b>Nilai ditambah</b> <i>Value added</i>	<b>Bilangan pekerja</b> <i>Number of persons engaged</i>	<b>Gaji &amp; upah</b> <i>Salaries &amp; wages</i>	<b>Nilai harta tetap</b> <i>Value of fixed assets</i>
		<b>(RM '000)</b>	<b>(RM '000)</b>	<b>(RM '000)</b>		<b>(RM '000)</b>	<b>(RM '000)</b>
<b>2022</b>	<b>2,054</b>	<b>4,298,434</b>	<b>1,953,614</b>	<b>2,344,820</b>	<b>16,169</b>	<b>708,310</b>	<b>2,574,734</b>
<b>2015</b>	<b>1,355</b>	<b>3,202,231</b>	<b>1,484,815</b>	<b>1,717,415</b>	<b>13,866</b>	<b>461,804</b>	<b>1,991,018</b>
<b>2010</b>	<b>323</b>	<b>1,897,113</b>	<b>841,107</b>	<b>1,056,006</b>	<b>4,956</b>	<b>117,524</b>	<b>427,176</b>

**Jadual 3.2: Statistik Utama Aktiviti Penerbitan Wayang Gambar, Video dan Program Televisyen, Rakaman Bunyi dan Penerbitan Muzik mengikut Kumpulan, 2022**

Table 3.2: Principal Statistics of Motion Picture, Video and Television Programme Production, Sound Recording and Music Publishing Activities by Group, 2022

Keterangan kumpulan <i>Group description</i>	Bilangan pertubuhan <i>Number of establishments</i>	Nilai output kasar <i>Value of gross output</i>	Nilai input perantaraan <i>Value of intermediate input</i>	Nilai ditambah <i>Value added</i>	Bilangan pekerja <i>Number of persons engaged</i>	Gaji & upah <i>Salaries &amp; wages</i>	Nilai harta tetap <i>Value of fixed assets</i>
		(RM '000)	(RM '000)	(RM '000)		(RM '000)	(RM '000)
<b>Jumlah</b> <i>Total</i>	<b>2,054</b>	<b>4,298,434</b>	<b>1,953,614</b>	<b>2,344,820</b>	<b>16,169</b>	<b>708,310</b>	<b>2,574,734</b>
<b>Aktiviti pengeluaran wayang gambar, video dan program televisyen</b> <i>Motion picture, video and television programme production activities</i>	1,170	2,216,869	968,949	1,247,919	7,984	430,406	1,646,784
<b>Aktiviti pasca produksi wayang gambar, video dan program televisyen</b> <i>Motion picture, video and television programme post-production activities</i>	312	354,191	153,464	200,727	2,143	95,041	123,526
<b>Aktiviti pengedaran wayang gambar, video dan program televisyen</b> <i>Motion picture, video and television programme distribution activities</i>	186	525,325	242,254	283,071	1,540	55,819	136,323
<b>Aktiviti penayangan wayang gambar</b> <i>Motion picture projection activities</i>	119	822,879	423,882	398,997	2,809	62,953	567,083
<b>Aktiviti rakaman bunyi dan penerbitan muzik</b> <i>Sound record and music publishing activities</i>	267	379,170	165,063	214,107	1,693	64,090	101,018

**Jadual 3.3: Statistik Utama Aktiviti Penerbitan Wayang Gambar, Video dan Program Televisyen, Rakaman Bunyi dan Penerbitan Muzik mengikut Negeri, 2022***Table 3.3: Principal Statistics of Motion Picture, Video and Television Programme Production, Sound Recording and Music Publishing Activities by State, 2022*

<b>Negeri</b> <i>State</i>	<b>Bilangan pertubuhan</b> <i>Number of establishments</i>	<b>Nilai output kasar</b> <i>Value of gross output</i>	<b>Nilai input perantaraan</b> <i>Value of intermediate input</i>	<b>Nilai ditambah</b> <i>Value added</i>	<b>Bilangan pekerja</b> <i>Number of persons engaged</i>	<b>Gaji &amp; upah</b> <i>Salaries &amp; wages</i>	<b>Nilai harta tetap</b> <i>Value of fixed assets</i>
		<b>(RM '000)</b>	<b>(RM '000)</b>	<b>(RM '000)</b>		<b>(RM '000)</b>	<b>(RM '000)</b>
<b>Jumlah</b> <i>Total</i>	<b>2,054</b>	<b>4,298,434</b>	<b>1,953,614</b>	<b>2,344,820</b>	<b>16,169</b>	<b>708,310</b>	<b>2,574,734</b>
<b>Johor</b>	56	163,633	77,205	86,427	271	9,094	327,888
<b>Kedah</b>	}	23	17,367	8,632	130	2,133	9,673
<b>Perlis</b>							
<b>Kelantan</b>	}	10	41,315	21,621	186	3,178	33,510
<b>Pahang</b>							
<b>Terengganu</b>							
<b>Melaka</b>	16	57,197	27,633	29,564	186	2,576	17,712
<b>Negeri Sembilan</b>	29	48,384	21,078	27,306	161	4,664	12,759
<b>Pulau Pinang</b>	46	113,195	50,774	62,421	665	16,886	97,958
<b>Perak</b>	26	38,619	18,748	19,871	237	3,774	29,409
<b>Selangor</b>	988	1,800,519	850,485	950,034	6,994	331,683	644,211
<b>Sabah</b>	31	47,085	23,868	23,217	398	6,859	21,765
<b>Sarawak</b>	32	35,587	19,904	15,684	303	8,331	23,217
<b>W.P. Kuala Lumpur</b>	792	1,930,700	831,997	1,098,703	6,615	318,573	1,352,977
<b>W.P. Labuan</b>	}	5	4,831	1,670	23	558	3,657
<b>W.P. Putrajaya</b>							



Jadual 3.4: Perangkaan Utama Aktiviti Penerbitan Wayang Gambar, Video dan Program Televisyen, Rakaman Bunyi dan Penerbitan Muzik mengikut Taraf Sah, 2022

Table 3.4: Principal Statistics of Motion Picture, Video and Television Programme Production, Sound Recording and Music Publishing Activities by Legal Status, 2022

Taraf sah <i>Legal Status</i>	Bilangan pertubuhan <i>Number of establishments</i>	Nilai output kasar <i>Value of gross output</i>	Nilai input perantaraan <i>Value of intermediate input</i>	Nilai ditambah <i>Value added</i>	Bilangan pekerja <i>Number of persons engaged</i>	Gaji & upah <i>Salaries &amp; wages</i>	Nilai harta tetap <i>Value of fixed assets</i>
		(RM '000)	(RM '000)	(RM '000)		(RM '000)	(RM '000)
<b>Jumlah</b> <i>Total</i>	<b>2,054</b>	<b>4,298,434</b>	<b>1,953,614</b>	<b>2,344,820</b>	<b>16,169</b>	<b>708,310</b>	<b>2,574,734</b>
<b>Hak milik perseorangan</b> <i>Individual proprietorship</i>	215	201,373	109,371	92,002	1,181	41,922	93,137
<b>Perkongsian</b> <i>Partnership</i>	50	119,333	78,058	41,275	233	8,410	46,281
<b>Perkongsian liabiliti terhad</b> <i>Limited liabilities partnership</i>	23	116,244	42,346	73,898	155	9,746	18,535
<b>Syarikat sendirian berhad</b> <i>Private limited company</i>	1,759	3,839,503	1,706,511	2,132,991	14,556	647,106	2,400,569
<b>Syarikat awam berhad</b> <i>Public limited company</i>							
<b>Pertubuhan persendirian yang tidak mencari keuntungan</b> <i>Private non-profit making organisation</i>	7	21,980	17,327	4,654	44	1,126	16,210

**Jadual 3.5: Statistik Utama Aktiviti Penerbitan Wayang Gambar, Video dan Program Televisyen, Rakaman Bunyi dan Penerbitan Muzik mengikut Hak Milik, 2022**

*Table 3.5: Principal Statistics of Motion Picture, Video and Television Programme Production, Sound Recording and Music Publishing Activities by Ownership, 2022*

Hak milik <i>Ownership</i>	Bilangan pertubuhan <i>Number of establishments</i>	Nilai output kasar <i>Value of gross output</i>	Nilai input perantaraan <i>Value of intermediate input</i>	Nilai ditambah <i>Value added</i>	Bilangan pekerja <i>Number of persons engaged</i>	Gaji & upah <i>Salaries &amp; wages</i>	Nilai harta tetap <i>Value of fixed assets</i>
		(RM '000)	(RM '000)	(RM '000)		(RM '000)	(RM '000)
<b>Jumlah</b> <i>Total</i>	<b>2,054</b>	<b>4,298,434</b>	<b>1,953,614</b>	<b>2,344,820</b>	<b>16,169</b>	<b>708,310</b>	<b>2,574,734</b>
<b>Residen Malaysia</b> <i>Malaysian residents</i>	2,051	4,235,850	1,897,532	2,338,318	16,114	704,679	2,574,468
<b>Bukan residen Malaysia</b> <i>Non-Malaysian residents</i>	3	62,584	56,082	6,502	55	3,631	266
<b>Hak milik bersama</b> <i>Joint ownership</i>							

**Jadual 3.6: Bilangan Pekerja dan Gaji & Upah bagi Aktiviti Penerbitan Wayang Gambar, Video dan Program Televisyen, Rakaman Bunyi dan Penerbitan Muzik mengikut Kategori Pekerja, 2022**  
**Table 3.6: Number of Persons Engaged and Salaries & Wages in the Motion Picture, Video and Television Programme Production, Sound Recording and Music Publishing Activities by Category of Workers, 2022**

Kategori pekerja <i>Category of worker</i>	Bilangan pekerja <i>Number of persons engaged</i>			Gaji & upah <i>Salaries &amp; wages</i>  (RM '000)
	Jumlah <i>Total</i>	Lelaki <i>Male</i>	Perempuan <i>Female</i>	
<b>Jumlah</b> <i>Total</i>	<b>16,169</b>	<b>10,202</b>	<b>5,967</b>	<b>708,310</b>
<b>Jumlah pemilik yang bekerja &amp; rakan niaga yang aktif dan pekerja keluarga tanpa gaji</b> <i>Total working proprietor &amp; active business partners and unpaid family workers</i>	<b>129</b>	<b>105</b>	<b>24</b>	<b>-</b>
<b>Pemilik yang bekerja dan rakan niaga yang aktif</b> <i>Working proprietor and active business partners</i>	<b>113</b>	<b>98</b>	<b>15</b>	<b>-</b>
<b>Pekerja keluarga tanpa gaji (semua ahli keluarga dan rakan yang tidak menerima upah yang tetap)</b> <i>Unpaid family workers (all members of family and friends not receiving regular wages)</i>	<b>16</b>	<b>7</b>	<b>9</b>	<b>-</b>
<b>Jumlah pekerja bergaji (sepenuh masa)</b> <i>Total paid employees (full-time)</i>	<b>15,116</b>	<b>9,388</b>	<b>5,728</b>	<b>692,524</b>
<b>Pengurus</b> <i>Managers</i>	<b>2,413</b>	<b>2,082</b>	<b>331</b>	<b>156,205</b>
<b>Profesional</b> <i>Professionals</i>	<b>2,900</b>	<b>1,630</b>	<b>1,270</b>	<b>182,891</b>
<b>Profesional (kecuali Penyelidik)</b> <i>Professionals (except Researcher)</i>	<b>2,826</b>	<b>1,579</b>	<b>1,247</b>	<b>178,667</b>
<b>Penyelidik</b> <i>Researcher</i>	<b>74</b>	<b>51</b>	<b>23</b>	<b>4,224</b>
<b>Juruteknik dan profesional bersekutu</b> <i>Technicians and associate professionals</i>	<b>2,558</b>	<b>1,949</b>	<b>609</b>	<b>108,628</b>
<b>Pekerja sokongan perkeranian</b> <i>Clerical support workers</i>	<b>2,010</b>	<b>467</b>	<b>1,543</b>	<b>81,189</b>
<b>Pekerja perkhidmatan dan jualan</b> <i>Service and sales workers</i>	<b>2,433</b>	<b>1,490</b>	<b>943</b>	<b>89,406</b>
<b>Pekerja kemahiran dan pekerja pertukangan yang berkaitan</b> <i>Craft and related trades workers</i>	<b>530</b>	<b>443</b>	<b>87</b>	<b>18,286</b>
<b>Operator mesin, loji dan pemasang</b> <i>Plant and machine operators, and assemblers</i>	<b>218</b>	<b>189</b>	<b>29</b>	<b>5,815</b>
<b>Pekerjaan asas</b> <i>Elementary occupations</i>	<b>2,054</b>	<b>1,138</b>	<b>916</b>	<b>50,104</b>
<b>Pekerja bergaji (sambilan)</b> <i>Paid employees (part-time)</i>	<b>924</b>	<b>709</b>	<b>215</b>	<b>15,786</b>

**Jadual 3.7: Bilangan Pekerja bagi Aktiviti Penerbitan Wayang Gambar, Video dan Program Televisyen, Rakaman Bunyi dan Penerbitan Muzik mengikut Kumpulan, 2022**  
*Table 3.7: Number of Persons Engaged in the Motion Picture, Video and Television Programme Production, Sound Recording and Music Publishing Activities by Group, 2022*

Keterangan kumpulan <i>Group description</i>	Bilangan pertubuhan <i>Number of establishments</i>	Bilangan pekerja <i>Number of persons engaged</i>			
		Jumlah <i>Total</i>	Pemilik yang bekerja & rakan niaga yang aktif dan pekerja keluarga tanpa gaji <i>Working proprietor &amp; active business partners and unpaid family worker</i>	Pekerja bergaji (sepenuh masa) <i>Paid employees (full-time)</i>	Pekerja bergaji (sambilan) <i>Paid employees (part-time)</i>
<b>Jumlah</b> <i>Total</i>	<b>2,054</b>	<b>16,169</b>	<b>129</b>	<b>15,116</b>	<b>924</b>
<b>Aktiviti pengeluaran wayang gambar, video dan program televisyen</b> <i>Motion picture, video and television programme production activities</i>	1,170	7,984	37	7,844	103
<b>Aktiviti pasca produksi wayang gambar, video dan program televisyen</b> <i>Motion picture, video and television programme post-production activities</i>	312	2,143	26	2,097	20
<b>Aktiviti pengedaran wayang gambar, video dan program televisyen</b> <i>Motion picture, video and television programme distribution activities</i>	186	1,540	8	1,514	18
<b>Aktiviti penayangan wayang gambar</b> <i>Motion picture projection activities</i>	119	2,809	10	2,046	753
<b>Aktiviti rakaman bunyi dan penerbitan muzik</b> <i>Sound record and music publishing activities</i>	267	1,693	48	1,615	30

**Jadual 4.1: Statistik Utama Aktiviti Pemrograman dan Penyiaran, 2010, 2015 dan 2022**  
*Table 4.1: Principal Statistics of Programming and Broadcasting Activities, 2010, 2015 and 2022*

<b>Tahun</b> <i>Year</i>	<b>Bilangan pertubuhan</b> <i>Number of establishments</i>	<b>Nilai output kasar</b> <i>Value of gross output</i>	<b>Nilai input perantaraan</b> <i>Value of intermediate input</i>	<b>Nilai ditambah</b> <i>Value added</i>	<b>Bilangan pekerja</b> <i>Number of persons engaged</i>	<b>Gaji &amp; upah</b> <i>Salaries &amp; wages</i>	<b>Nilai harta tetap</b> <i>Value of fixed assets</i>
		<b>(RM '000)</b>	<b>(RM '000)</b>	<b>(RM '000)</b>		<b>(RM '000)</b>	<b>(RM '000)</b>
<b>2022</b>	85	9,621,887	5,984,232	3,637,656	7,558	743,589	6,702,187
<b>2015</b>	39	7,211,172	4,182,456	3,028,715	6,659	582,529	6,088,564
<b>2010</b>	15	4,009,704	2,444,377	1,565,327	4,934	389,210	1,419,866

**Jadual 4.2: Statistik Utama Aktiviti Pemrograman dan Penyiaran mengikut Kumpulan, 2022**

*Table 4.2: Principal Statistics of Programming and Broadcasting Activities by Group, 2022*

<b>Keterangan kumpulan</b> <i>Group description</i>	<b>Bilangan pertubuhan</b> <i>Number of establishments</i>	<b>Nilai output kasar</b> <i>Value of gross output</i>	<b>Nilai input perantaraan</b> <i>Value of intermediate input</i>	<b>Nilai ditambah</b> <i>Value added</i>	<b>Bilangan pekerja</b> <i>Number of persons engaged</i>	<b>Gaji &amp; upah</b> <i>Salaries &amp; wages</i>	<b>Nilai harta tetap</b> <i>Value of fixed assets</i>
		(RM '000)	(RM '000)	(RM '000)		(RM '000)	(RM '000)
<b>Jumlah</b> <i>Total</i>	<b>85</b>	<b>9,621,887</b>	<b>5,984,232</b>	<b>3,637,656</b>	<b>7,558</b>	<b>743,589</b>	<b>6,702,187</b>
<b>Penyiaran radio</b> <i>Radio broadcasting</i>	26	686,474	391,291	295,183	1,306	104,398	155,958
<b>Aktiviti pemrograman dan penyiaran televisyen</b> <i>Television programming and broadcasting activities</i>	59	8,935,413	5,592,940	3,342,473	6,252	639,191	6,546,229

Jadual 4.3: Statistik Utama Aktiviti Pemrograman dan Penyiaran mengikut Negeri, 2022

Table 4.3: Principal Statistics of Programming and Broadcasting Activities by State, 2022

Negeri State	Bilangan pertubuhan Number of establishments	Nilai output kasar Value of gross output  (RM '000)	Nilai input perantaraan Value of intermediate input  (RM '000)	Nilai ditambah Value added  (RM '000)	Bilangan pekerja Number of persons engaged	Gaji & upah Salaries & wages  (RM '000)	Nilai harta tetap Value of fixed assets  (RM '000)	
<b>Jumlah Total</b>	<b>85</b>	<b>9,621,887</b>	<b>5,984,232</b>	<b>3,637,656</b>	<b>7,558</b>	<b>743,589</b>	<b>6,702,187</b>	
<b>Johor</b>	}	4	6,221	2,976	3,245	69	1,751	5,507
<b>Kelantan</b>								
<b>Terengganu</b>								
<b>Pulau Pinang</b>	}	4	8,697	4,738	3,959	29	1,416	3,244
<b>Perak</b>								
<b>Selangor</b>		46	642,325	431,380	210,945	1,172	94,189	206,880
<b>Sabah</b>	}	5	7,397	4,173	3,224	68	2,137	4,731
<b>Sarawak</b>								
<b>W.P. Kuala Lumpur</b>		26	8,957,246	5,540,964	3,416,282	6,220	644,096	6,481,825

**Jadual 4.4: Statistik Utama Aktiviti Pemrograman dan Penyiaran mengikut Taraf Sah, 2022**

*Table 4.4: Principal Statistics of Programming and Broadcasting Activities by Legal Status, 2022*

Taraf sah <i>Legal Status</i>	Bilangan pertubuhan <i>Number of establishments</i>	Nilai output kasar <i>Value of gross output</i>	Nilai input perantaraan <i>Value of intermediate input</i>	Nilai ditambah <i>Value added</i>	Bilangan pekerja <i>Number of persons engaged</i>	Gaji & upah <i>Salaries &amp; wages</i>	Nilai harta tetap <i>Value of fixed assets</i>
		(RM '000)	(RM '000)	(RM '000)		(RM '000)	(RM '000)
<b>Jumlah</b> <i>Total</i>	<b>85</b>	<b>9,621,887</b>	<b>5,984,232</b>	<b>3,637,656</b>	<b>7,558</b>	<b>743,589</b>	<b>6,702,187</b>
<b>Syarikat sendirian berhad</b> <i>Private limited company</i>	82	8,937,832	5,621,953	3,315,880	6,801	672,715	6,497,941
<b>Syarikat awam berhad</b> <i>Public limited company</i>	3	684,055	362,279	321,776	757	70,874	204,246
<b>Perbadanan awam</b> <i>Public corporation</i>							



**Jadual 4.5: Statistik Utama Aktiviti Pemrograman dan Penyiaran mengikut Hak Milik, 2022***Table 4.5: Principal Statistics of Programming and Broadcasting Activities by Ownership, 2022*

<b>Hak milik</b> <i>Ownership</i>	<b>Bilangan pertubuhan</b> <i>Number of establishments</i>	<b>Nilai output kasar</b> <i>Value of gross output</i>	<b>Nilai input perantaraan</b> <i>Value of intermediate input</i>	<b>Nilai ditambah</b> <i>Value added</i>	<b>Bilangan pekerja</b> <i>Number of persons engaged</i>	<b>Gaji &amp; upah</b> <i>Salaries &amp; wages</i>	<b>Nilai harta tetap</b> <i>Value of fixed assets</i>
		(RM '000)	(RM '000)	(RM '000)		(RM '000)	(RM '000)
<b>Jumlah</b> <i>Total</i>	85	9,621,887	5,984,232	3,637,656	7,558	743,589	6,702,187
<b>Residen Malaysia</b> <i>Malaysian residents</i>	85	9,621,887	5,984,232	3,637,656	7,558	743,589	6,702,187

**Jadual 4.6: Bilangan Pekerja dan Gaji & Upah bagi Aktiviti Pemrograman dan Penyiaran mengikut Kategori Pekerja, 2022**  
 Table 4.6: Number of Persons Engaged and Salaries and Wages in the Programming & Broadcasting Activities by Category of Workers, 2022

Kategori pekerja <i>Category of worker</i>	Bilangan pekerja <i>Number of persons engaged</i>			Gaji & upah <i>Salaries &amp; wages</i>  (RM '000)
	Jumlah <i>Total</i>	Lelaki <i>Male</i>	Perempuan <i>Female</i>	
<b>Jumlah</b> <i>Total</i>	<b>7,558</b>	<b>3,468</b>	<b>4,090</b>	<b>743,589</b>
<b>Jumlah pemilik yang bekerja &amp; rakan niaga yang aktif dan pekerja keluarga tanpa gaji</b> <i>Total working proprietor &amp; active business partners and unpaid family workers</i>	-	-	-	-
<b>Pemilik yang bekerja dan rakan niaga yang aktif</b> <i>Working proprietor and active business partners</i>	-	-	-	-
<b>Pekerja keluarga tanpa gaji (semua ahli keluarga dan rakan yang tidak menerima upah yang tetap)</b> <i>Unpaid family workers (all members of family and friends not receiving regular wages)</i>	-	-	-	-
<b>Jumlah pekerja bergaji (sepenuh masa)</b> <i>Total paid employees (full-time)</i>	<b>7,523</b>	<b>3,443</b>	<b>4,080</b>	<b>742,726</b>
<b>Pengurus</b> <i>Managers</i>	<b>745</b>	406	339	194,567
<b>Profesional</b> <i>Professionals</i>	<b>2,921</b>	1,356	1,565	366,660
<b>Profesional (kecuali Penyelidik)</b> <i>Professionals (except Researcher)</i>	<b>2,868</b>	1,314	1,554	360,760
<b>Penyelidik</b> <i>Researcher</i>	<b>53</b>	42	11	5,900
<b>Juruteknik dan profesional bersekutu</b> <i>Technicians and associate professionals</i>	<b>1,053</b>	795	258	67,183
<b>Pekerja sokongan perkeranian</b> <i>Clerical support workers</i>	<b>1,509</b>	277	1,232	71,843
<b>Pekerja perkhidmatan dan jualan</b> <i>Service and sales workers</i>	<b>512</b>	415	97	20,524
<b>Pekerja kemahiran dan pekerja pertukangan yang berkaitan</b> <i>Craft and related trades workers</i>	<b>58</b>	33	25	2,204
<b>Operator mesin, loji dan pemasangan</b> <i>Plant and machine operators, and assemblers</i>	<b>13</b>	13	0	445
<b>Pekerjaan asas</b> <i>Elementary occupations</i>	<b>712</b>	148	564	19,300
<b>Pekerja bergaji (sambilan)</b> <i>Paid employees (part-time)</i>	<b>35</b>	<b>25</b>	<b>10</b>	<b>863</b>

Jadual 4.7: Bilangan Pekerja bagi Aktiviti Pemrograman dan Penyiaran mengikut Kumpulan, 2022

Table 4.7: Number of Persons Engaged in the Programming and Broadcasting Activities by Group, 2022

Keterangan kumpulan <i>Group description</i>	Bilangan pertubuhan <i>Number of establishments</i>	Bilangan pekerja <i>Number of persons engaged</i>			
		Jumlah <i>Total</i>	Pemilik yang bekerja & rakan niaga yang aktif dan pekerja keluarga tanpa gaji <i>Working proprietor &amp; active business partners and unpaid family worker</i>	Pekerja bergaji (sepenuh masa) <i>Paid employees (full-time)</i>	Pekerja bergaji (sambilan) <i>Paid employees (part-time)</i>
<b>Jumlah</b> <i>Total</i>	<b>85</b>	<b>7,558</b>	-	<b>7,523</b>	<b>35</b>
<b>Penyiaran radio</b> <i>Radio broadcasting</i>	26	1,306	-	1,294	12
<b>Aktiviti pemrograman dan penyiaran televisyen</b> <i>Television programming and broadcasting activities</i>	59	6,252	-	6,229	23

**Jadual 5.1: Statistik Utama Perkhidmatan Telekomunikasi, 2010, 2015 dan 2022***Table 5.1: Principal Statistics of Telecommunication Services, 2010, 2015 and 2022*

<b>Tahun</b> <i>Year</i>	<b>Bilangan pertubuhan</b> <i>Number of establishments</i>	<b>Nilai output kasar</b> <i>Value of gross output</i>	<b>Nilai input perantaraan</b> <i>Value of intermediate input</i>	<b>Nilai ditambah</b> <i>Value added</i>	<b>Bilangan pekerja</b> <i>Number of persons engaged</i>	<b>Gaji &amp; upah</b> <i>Salaries &amp; wages</i>	<b>Nilai harta tetap</b> <i>Value of fixed assets</i>
		<b>(RM '000)</b>	<b>(RM '000)</b>	<b>(RM '000)</b>		<b>(RM '000)</b>	<b>(RM '000)</b>
<b>2022</b>	<b>2,426</b>	<b>120,966,308</b>	<b>51,011,108</b>	<b>69,955,200</b>	<b>68,837</b>	<b>7,047,452</b>	<b>87,184,531</b>
<b>2015</b>	<b>1,135</b>	<b>72,293,739</b>	<b>33,988,507</b>	<b>38,305,231</b>	<b>51,510</b>	<b>3,804,464</b>	<b>61,095,436</b>
<b>2010</b>	<b>342</b>	<b>53,426,879</b>	<b>26,320,024</b>	<b>27,106,855</b>	<b>41,814</b>	<b>2,120,085</b>	<b>25,191,839</b>

Jadual 5.2: Statistik Utama Perkhidmatan Telekomunikasi mengikut Kumpulan, 2022

Table 5.2: Principal Statistics of Telecommunication Services by Group, 2022

Keterangan kumpulan <i>Group description</i>	Bilangan pertubuhan <i>Number of establishments</i>	Nilai output kasar <i>Value of gross output</i> (RM '000)	Nilai input perantaraan <i>Value of intermediate input</i> (RM '000)	Nilai ditambah <i>Value added</i> (RM '000)	Bilangan pekerja <i>Number of persons engaged</i>	Gaji & upah <i>Salaries &amp; wages</i> (RM '000)	Nilai harta tetap <i>Value of fixed assets</i> (RM '000)
<b>Jumlah</b> <i>Total</i>	<b>2,426</b>	<b>120,966,308</b>	<b>51,011,108</b>	<b>69,955,200</b>	<b>68,837</b>	<b>7,047,452</b>	<b>87,184,531</b>
<b>Aktiviti telekomunikasi (berwayar, tanpa wayar, dan satelit)</b> <i>Telecommunication activities (wired, wireless and satellite)</i>	796	101,431,518	40,756,229	60,675,290	45,349	5,259,697	75,159,740
<b>Penyediaan akses internet melalui rangkaian di antara pelanggan dan ISP (termasuk penyediaan perkhidmatan telekomunikasi melalui sambungan telekom VOIP sedia ada)</b> <i>Provision of internet access over networks between the client and the ISP not owned or controlled by the ISP (including provision of telecommunication services over existing telecom connection VOIP provision)</i>	190	5,838,478	3,168,592	2,669,886	4,648	301,557	3,688,344
<b>Aktiviti telekomunikasi lain</b> <i>Other telecommunications activities</i>	1,440	13,696,311	7,086,287	6,610,024	18,840	1,486,199	8,336,446

**Jadual 5.3: Statistik Utama Perkhidmatan Telekomunikasi mengikut Negeri, 2022**

*Table 5.3: Principal Statistics of Telecommunication Services by State, 2022*

<b>Negeri</b> <i>State</i>	<b>Bilangan pertubuhan</b> <i>Number of establishments</i>	<b>Nilai output kasar</b> <i>Value of gross output</i>	<b>Nilai input perantaraan</b> <i>Value of intermediate input</i>	<b>Nilai ditambah</b> <i>Value added</i>	<b>Bilangan pekerja</b> <i>Number of persons engaged</i>	<b>Gaji &amp; upah</b> <i>Salaries &amp; wages</i>	<b>Nilai harta tetap</b> <i>Value of fixed assets</i>
		<b>(RM '000)</b>	<b>(RM '000)</b>	<b>(RM '000)</b>		<b>(RM '000)</b>	<b>(RM '000)</b>
<b>Jumlah</b> <i>Total</i>	<b>2,426</b>	<b>120,966,308</b>	<b>51,011,108</b>	<b>69,955,200</b>	<b>68,837</b>	<b>7,047,452</b>	<b>87,184,531</b>
<b>Johor</b>	163	142,076	81,090	60,986	997	27,573	64,407
<b>Kedah</b>	41	33,030	18,601	14,429	181	7,758	15,540
<b>Kelantan</b>	13	778	508	270	13	232	82
<b>Melaka</b>	51	43,106	14,820	28,286	136	3,823	16,152
<b>Negeri Sembilan</b>	44	22,726	12,775	9,951	50	1,020	14,643
<b>Pahang</b>	25	144,883	38,797	106,086	82	3,838	521,540
<b>Pulau Pinang</b>	92	940,339	360,521	579,817	1,655	82,330	261,490
<b>Perak</b>	87	42,313	21,986	20,326	250	9,906	25,828
<b>Perlis</b>	5	812	407	404	12	299	392
<b>Selangor</b>	983	27,787,363	12,673,234	15,114,130	19,584	1,766,300	13,898,616
<b>Terengganu</b>	37	5,890	2,746	3,144	50	2,212	2,610
<b>Sabah</b>	91	91,651	50,505	41,146	223	5,644	165,732
<b>Sarawak</b>	77	386,542	151,253	235,288	512	24,845	1,162,833
<b>W.P. Kuala Lumpur</b>	703	91,281,805	37,561,115	53,720,690	45,008	5,107,364	71,019,212
<b>W.P. Labuan</b>	5	1,386	392	994	5	157	206
<b>W.P. Putrajaya</b>	9	41,610	22,359	19,251	79	4,152	15,248

Jadual 5.4: Statistik Utama Perkhidmatan Telekomunikasi mengikut Taraf Sah, 2022

Table 5.4: Principal Statistics of Telecommunication Services by Legal Status, 2022

Taraf sah <i>Legal Status</i>	Bilangan pertubuhan <i>Number of establishments</i>	Nilai output kasar <i>Value of gross output</i>	Nilai input perantaraan <i>Value of intermediate input</i>	Nilai ditambah <i>Value added</i>	Bilangan pekerja <i>Number of persons engaged</i>	Gaji & upah <i>Salaries &amp; wages</i>	Nilai harta tetap <i>Value of fixed assets</i>
		(RM '000)	(RM '000)	(RM '000)		(RM '000)	(RM '000)
<b>Jumlah</b> <i>Total</i>	<b>2,426</b>	<b>120,966,308</b>	<b>51,011,108</b>	<b>69,955,200</b>	<b>68,837</b>	<b>7,047,452</b>	<b>87,184,531</b>
<b>Hak milik perseorangan</b> <i>Individual proprietorship</i>	462	377,010	262,793	114,217	1,584	63,966	88,817
<b>Perkongsian</b> <i>Partnership</i>	124	60,176	30,049	30,126	473	19,042	17,235
<b>Perkongsian liabiliti terhad</b> <i>Limited liabilities partnership</i>	13	16,106	7,319	8,787	80	6,012	3,716
<b>Syarikat sendirian berhad</b> <i>Private limited company</i>	1,793	94,612,035	38,097,486	56,514,549	48,418	4,780,450	68,544,902
<b>Syarikat awam berhad</b> <i>Public limited company</i>	34	25,900,981	12,613,462	13,287,519	18,282	2,177,982	18,529,860
<b>Perbadanan awam</b> <i>Public corporation</i>							

**Jadual 5.5: Statistik Utama Perkhidmatan Telekomunikasi mengikut Hak Milik, 2022***Table 5.5: Principal Statistics of Telecommunication Services by Ownership, 2022*

<b>Hak milik</b> <i>Ownership</i>	<b>Bilangan pertubuhan</b> <i>Number of establishments</i>	<b>Nilai output kasar</b> <i>Value of gross output</i>	<b>Nilai input perantaraan</b> <i>Value of intermediate input</i>	<b>Nilai ditambah</b> <i>Value added</i>	<b>Bilangan pekerja</b> <i>Number of persons engaged</i>	<b>Gaji &amp; upah</b> <i>Salaries &amp; wages</i>	<b>Nilai harta tetap</b> <i>Value of fixed assets</i>
		<b>(RM '000)</b>	<b>(RM '000)</b>	<b>(RM '000)</b>		<b>(RM '000)</b>	<b>(RM '000)</b>
<b>Jumlah</b> <i>Total</i>	<b>2,426</b>	<b>120,966,308</b>	<b>51,011,108</b>	<b>69,955,200</b>	<b>68,837</b>	<b>7,047,452</b>	<b>87,184,531</b>
<b>Residen Malaysia</b> <i>Malaysian residents</i>	2,418	120,213,388	50,574,527	69,638,861	68,168	7,004,057	87,178,446
<b>Bukan residen Malaysia</b> <i>Non-Malaysian residents</i>	8	752,920	436,582	316,338	669	43,396	6,085



**Jadual 5.6: Bilangan Pekerja dan Gaji & Upah bagi Perkhidmatan Telekomunikasi mengikut Kategori Pekerja, 2022**  
*Table 5.6: Number of Persons Engaged and Salaries & Wages in the Telecommunication Services by Category of Workers, 2022*

Kategori pekerja <i>Category of worker</i>	Bilangan pekerja <i>Number of persons engaged</i>			Gaji & upah <i>Salaries &amp; wages</i>  (RM '000)
	Jumlah <i>Total</i>	Lelaki <i>Male</i>	Perempuan <i>Female</i>	
<b>Jumlah</b> <i>Total</i>	<b>68,837</b>	<b>41,286</b>	<b>27,551</b>	<b>7,047,452</b>
<b>Jumlah pemilik yang bekerja &amp; rakan niaga yang aktif dan pekerja keluarga tanpa gaji</b> <i>Total working proprietor &amp; active business partners and unpaid family workers</i>	<b>273</b>	<b>246</b>	<b>27</b>	<b>-</b>
<b>Pemilik yang bekerja dan rakan niaga yang aktif</b> <i>Working proprietor and active business partners</i>	<b>249</b>	<b>231</b>	<b>18</b>	<b>-</b>
<b>Pekerja keluarga tanpa gaji (semua ahli keluarga dan rakan yang tidak menerima upah yang tetap)</b> <i>Unpaid family workers (all members of family and friends not receiving regular wages)</i>	<b>24</b>	<b>15</b>	<b>9</b>	<b>-</b>
<b>Jumlah pekerja bergaji (sepanjang masa)</b> <i>Total paid employees (full-time)</i>	<b>67,986</b>	<b>40,670</b>	<b>27,316</b>	<b>7,029,571</b>
<b>Pengurus</b> <i>Managers</i>	<b>10,238</b>	<b>6,798</b>	<b>3,440</b>	<b>1,895,865</b>
<b>Profesional</b> <i>Professionals</i>	<b>13,130</b>	<b>8,234</b>	<b>4,896</b>	<b>2,066,964</b>
<b>Profesional (kecuali Penyelidik)</b> <i>Professionals (except Researcher)</i>	<b>12,349</b>	<b>7,816</b>	<b>4,533</b>	<b>1,968,640</b>
<b>Penyelidik</b> <i>Researcher</i>	<b>781</b>	<b>418</b>	<b>363</b>	<b>98,324</b>
<b>Juruteknik dan profesional bersekutu</b> <i>Technicians and associate professionals</i>	<b>12,374</b>	<b>9,821</b>	<b>2,553</b>	<b>1,249,092</b>
<b>Pekerja sokongan perkeranian</b> <i>Clerical support workers</i>	<b>9,040</b>	<b>3,053</b>	<b>5,987</b>	<b>691,311</b>
<b>Pekerja perkhidmatan dan jualan</b> <i>Service and sales workers</i>	<b>10,022</b>	<b>4,430</b>	<b>5,592</b>	<b>611,579</b>
<b>Pekerja kemahiran dan pekerja pertukangan yang berkaitan</b> <i>Craft and related trades workers</i>	<b>3,963</b>	<b>3,674</b>	<b>289</b>	<b>176,683</b>
<b>Operator mesin, loji dan pemasang</b> <i>Plant and machine operators, and assemblers</i>	<b>4,905</b>	<b>2,322</b>	<b>2,583</b>	<b>188,504</b>
<b>Pekerjaan asas</b> <i>Elementary occupations</i>	<b>4,314</b>	<b>2,338</b>	<b>1,976</b>	<b>149,574</b>
<b>Pekerja bergaji (sambilan)</b> <i>Paid employees (part-time)</i>	<b>578</b>	<b>370</b>	<b>208</b>	<b>17,882</b>

**Jadual 5.7: Bilangan Pekerja bagi Perkhidmatan Telekomunikasi mengikut Kumpulan, 2022**  
*Table 5.7: Number of Persons Engaged in the Telecommunication Services by Group, 2022*

Keterangan kumpulan <i>Group description</i>	Bilangan pertubuhan <i>Number of establishments</i>	Bilangan pekerja <i>Number of persons engaged</i>			
		Jumlah <i>Total</i>	Pemilik yang bekerja & rakan niaga yang aktif dan pekerja keluarga tanpa gaji <i>Working proprietor &amp; active business partners and unpaid family worker</i>	Pekerja bergaji (sepenuh masa) <i>Paid employees (full-time)</i>	Pekerja bergaji (sambilan) <i>Paid employees (part-time)</i>
<b>Jumlah</b> <i>Total</i>	<b>2,426</b>	<b>68,837</b>	<b>273</b>	<b>67,986</b>	<b>578</b>
<b>Aktiviti telekomunikasi (berwayar, tanpa wayar, dan satelit)</b> <i>Telecommunication activities (wired, wireless and satellite)</i>	796	45,349	72	44,830	447
<b>Penyediaan akses internet melalui rangkaian di antara pelanggan dan ISP (termasuk penyediaan perkhidmatan telekomunikasi melalui sambungan telekom VOIP sedia ada)</b> <i>Provision of internet access over networks between the client and the ISP not owned or controlled by the ISP (including provision of telecommunication services over existing telecom connection VOIP provision)</i>	190	4,648	16	4,579	53
<b>Aktiviti telekomunikasi lain</b> <i>Other telecommunication activities</i>	1,440	18,840	185	18,577	78

**Jadual 6.1: Statistik Utama Pengaturcaraan Komputer, Perundingan dan Aktiviti yang Berkaitan, 2010, 2015 dan 2022***Table 6.1: Principal Statistics of Computer Programming, Consultancy and Related Activities, 2010, 2015 and 2022*

<b>Tahun</b> <i>Year</i>	<b>Bilangan pertubuhan</b> <i>Number of establishments</i>	<b>Nilai output kasar</b> <i>Value of gross output</i>	<b>Nilai input perantaraan</b> <i>Value of intermediate input</i>	<b>Nilai ditambah</b> <i>Value added</i>	<b>Bilangan pekerja</b> <i>Number of persons engaged</i>	<b>Gaji &amp; upah</b> <i>Salaries &amp; wages</i>	<b>Nilai harta tetap</b> <i>Value of fixed assets</i>
		<b>(RM '000)</b>	<b>(RM '000)</b>	<b>(RM '000)</b>		<b>(RM '000)</b>	<b>(RM '000)</b>
<b>2022</b>	<b>10,501</b>	<b>41,258,481</b>	<b>22,192,443</b>	<b>19,066,038</b>	<b>122,949</b>	<b>8,536,688</b>	<b>14,197,567</b>
<b>2015</b>	4,102	31,873,598	17,530,608	14,342,990	98,232	5,201,449	10,676,505
<b>2010</b>	1,366	17,785,128	8,422,108	9,363,020	61,468	3,020,583	2,164,780

**Jadual 6.2: Statistik Utama Pengaturcaraan Komputer, Perundingan dan Aktiviti yang Berkaitan mengikut Kumpulan, 2022**

*Table 6.2: Principal Statistics of Computer Programming, Consultancy and Related Activities by Group, 2022*

<b>Keterangan kumpulan</b> <i>Group description</i>	<b>Bilangan pertubuhan</b> <i>Number of establishments</i>	<b>Nilai output kasar</b> <i>Value of gross output</i>	<b>Nilai input perantaraan</b> <i>Value of intermediate input</i>	<b>Nilai ditambah</b> <i>Value added</i>	<b>Bilangan pekerja</b> <i>Number of persons engaged</i>	<b>Gaji &amp; upah</b> <i>Salaries &amp; wages</i>	<b>Nilai harta tetap</b> <i>Value of fixed assets</i>
		<b>(RM '000)</b>	<b>(RM '000)</b>	<b>(RM '000)</b>		<b>(RM '000)</b>	<b>(RM '000)</b>
<b>Jumlah</b> <i>Total</i>	<b>10,501</b>	<b>41,258,481</b>	<b>22,192,443</b>	<b>19,066,038</b>	<b>122,949</b>	<b>8,536,688</b>	<b>14,197,567</b>
<b>Aktiviti pengaturcaraan komputer</b> <i>Computer programming activities</i>	1,921	10,922,889	6,046,350	4,876,539	23,729	1,870,607	1,795,176
<b>Perkhidmatan perundingan komputer</b> <i>Computer consultancy services</i>	1,882	10,384,486	5,497,741	4,886,744	29,853	2,111,270	2,573,628
<b>Aktiviti pengurusan kemudahan komputer</b> <i>Computer facilities management activities</i>	522	10,874,723	6,166,037	4,708,686	25,963	1,672,487	6,766,881
<b>Aktiviti perkhidmatan teknologi maklumat lain</b> <i>Other information technology service activities</i>	6,176	9,076,383	4,482,314	4,594,068	43,404	2,882,324	3,061,882

Jadual 6.3: Statistik Utama Pengaturcaraan Komputer, Perundingan dan Aktiviti yang Berkaitan mengikut Negeri, 2022

Table 6.3: Principal Statistics of Computer Programming, Consultancy and Related Activities by State, 2022

Negeri State	Bilangan pertubuhan Number of establishments	Nilai output kasar Value of gross output  (RM '000)	Nilai input perantaraan Value of intermediate input  (RM '000)	Nilai ditambah Value added  (RM '000)	Bilangan pekerja Number of persons engaged	Gaji & upah Salaries & wages  (RM '000)	Nilai harta tetap Value of fixed assets  (RM '000)
<b>Jumlah Total</b>	<b>10,501</b>	<b>41,258,481</b>	<b>22,192,443</b>	<b>19,066,038</b>	<b>122,949</b>	<b>8,536,688</b>	<b>14,197,567</b>
<b>Johor</b>	406	403,616	226,322	177,293	1,826	57,933	385,301
<b>Kedah</b>	65	41,130	24,350	16,780	179	5,469	14,270
<b>Kelantan</b>	14	2,918	1,822	1,097	29	584	201
<b>Melaka</b>	100	40,649	23,019	17,630	212	6,151	21,270
<b>Negeri Sembilan</b>	75	82,846	44,962	37,885	199	11,575	13,825
<b>Pahang</b>	18	9,513	4,228	5,285	53	1,305	2,642
<b>Pulau Pinang</b>	522	3,761,931	2,115,649	1,646,283	7,442	205,361	4,667,427
<b>Perak</b>	156	126,921	78,061	48,860	338	20,171	48,244
<b>Perlis</b>	8	886	493	393	17	288	525
<b>Selangor</b>	4,657	18,909,079	9,746,123	9,162,957	53,366	4,542,616	4,555,061
<b>Terengganu</b>	27	10,940	5,293	5,647	129	3,815	3,111
<b>Sabah</b>	104	95,113	63,552	31,561	334	12,203	44,275
<b>Sarawak</b>	131	287,853	150,002	137,851	1,068	40,478	237,289
<b>W.P. Kuala Lumpur</b>	4,204	17,469,934	9,699,841	7,770,093	57,691	3,626,650	4,194,047
<b>W.P. Labuan</b>	4	428	206	221	5	108	133
<b>W.P. Putrajaya</b>	10	14,723	8,520	6,203	61	1,980	9,947

**Jadual 6.4: Statistik Utama Pengaturcaraan Komputer, Perundingan dan Aktiviti yang Berkaitan mengikut Taraf Sah, 2022**

*Table 6.4: Principal Statistics of Computer Programming, Consultancy and Related Activities by Legal Status, 2022*

Taraf sah <i>Legal Status</i>	Bilangan pertubuhan <i>Number of establishments</i>	Nilai output kasar <i>Value of gross output</i>	Nilai input perantaraan <i>Value of intermediate input</i>	Nilai ditambah <i>Value added</i>	Bilangan pekerja <i>Number of persons engaged</i>	Gaji & upah <i>Salaries &amp; wages</i>	Nilai harta tetap <i>Value of fixed assets</i>
		(RM '000)	(RM '000)	(RM '000)		(RM '000)	(RM '000)
<b>Jumlah</b> <i>Total</i>	<b>10,501</b>	<b>41,258,481</b>	<b>22,192,443</b>	<b>19,066,038</b>	<b>122,949</b>	<b>8,536,688</b>	<b>14,197,567</b>
<b>Hak milik perseorangan</b> <i>Individual proprietorship</i>	652	380,215	190,259	189,955	1,960	108,332	93,177
<b>Perkongsian</b> <i>Partnership</i>	138	85,412	42,132	43,280	419	21,319	16,918
<b>Perkongsian liabiliti terhad</b> <i>Limited liabilities partnership</i>	156	68,495	30,910	37,585	601	29,614	8,506
<b>Syarikat sendirian berhad</b> <i>Private limited company</i>	9,470	37,887,509	20,712,208	17,175,302	112,422	7,783,330	13,361,903
<b>Syarikat awam berhad</b> <i>Public limited company</i>	72	2,545,800	1,119,482	1,426,318	6,790	558,566	668,285
<b>Perbadanan awam</b> <i>Public corporation</i>							
<b>Pertubuhan persendirian yang tidak mencari keuntungan</b> <i>Private non-profit making organisation</i>	13	291,049	97,451	193,598	757	35,527	48,778

**Jadual 6.5: Statistik Utama Pengaturcaraan Komputer, Perundingan dan Aktiviti yang Berkaitan mengikut Hak Milik, 2022**

Table 6.5: Principal Statistics of Computer Programming, Consultancy and Related Activities by Ownership, 2022

<b>Hak milik</b> <i>Ownership</i>	<b>Bilangan pertubuhan</b> <i>Number of establishments</i>	<b>Nilai output kasar</b> <i>Value of gross output</i>	<b>Nilai input perantaraan</b> <i>Value of intermediate input</i>	<b>Nilai ditambah</b> <i>Value added</i>	<b>Bilangan pekerja</b> <i>Number of persons engaged</i>	<b>Gaji &amp; upah</b> <i>Salaries &amp; wages</i>	<b>Nilai harta tetap</b> <i>Value of fixed assets</i>
		<b>(RM '000)</b>	<b>(RM '000)</b>	<b>(RM '000)</b>		<b>(RM '000)</b>	<b>(RM '000)</b>
<b>Jumlah</b> <i>Total</i>	<b>10,501</b>	<b>41,258,481</b>	<b>22,192,443</b>	<b>19,066,038</b>	<b>122,949</b>	<b>8,536,688</b>	<b>14,197,567</b>
<b>Residen Malaysia</b> <i>Malaysian residents</i>	10,462	37,851,584	21,195,875	16,655,709	110,203	7,454,837	13,480,204
<b>Bukan residen Malaysia</b> <i>Non-Malaysian residents</i>	35	3,266,415	927,446	2,338,969	12,691	1,078,450	590,284
<b>Hak milik bersama</b> <i>Joint ownership</i>	4	140,482	69,122	71,359	55	3,401	127,080

**Jadual 6.6: Bilangan Pekerja dan Gaji & Upah bagi Pengaturcaraan Komputer, Perundingan dan Aktiviti yang Berkaitan mengikut Kategori Pekerja, 2022**  
*Table 6.6: Number of Persons Engaged and Salaries & Wages in the Computer Programming, Consultancy and Related Activities by Category of Workers, 2022*

Kategori pekerja <i>Category of worker</i>	Bilangan pekerja <i>Number of persons engaged</i>			Gaji & upah <i>Salaries &amp; wages</i>  (RM '000)
	Jumlah <i>Total</i>	Lelaki <i>Male</i>	Perempuan <i>Female</i>	
<b>Jumlah</b> <i>Total</i>	<b>122,949</b>	<b>75,405</b>	<b>47,544</b>	<b>8,536,688</b>
<b>Jumlah pemilik yang bekerja &amp; rakan niaga yang aktif dan pekerja keluarga tanpa gaji</b> <i>Total working proprietor &amp; active business partners and unpaid family workers</i>	<b>251</b>	<b>215</b>	<b>36</b>	<b>-</b>
<b>Pemilik yang bekerja dan rakan niaga yang aktif</b> <i>Working proprietor and active business partners</i>	<b>223</b>	<b>193</b>	<b>30</b>	<b>-</b>
<b>Pekerja keluarga tanpa gaji (semua ahli keluarga dan rakan yang tidak menerima upah yang tetap)</b> <i>Unpaid family workers (all members of family and friends not receiving regular wages)</i>	<b>28</b>	<b>22</b>	<b>6</b>	<b>-</b>
<b>Jumlah pekerja bergaji (sepenuh masa)</b> <i>Total paid employees (full-time)</i>	<b>121,962</b>	<b>74,703</b>	<b>47,259</b>	<b>8,521,691</b>
<b>Pengurus</b> <i>Managers</i>	<b>15,728</b>	<b>9,820</b>	<b>5,908</b>	<b>2,362,744</b>
<b>Profesional</b> <i>Professionals</i>	<b>32,739</b>	<b>21,719</b>	<b>11,020</b>	<b>3,468,394</b>
<b>Profesional (kecuali Penyelidik)</b> <i>Professionals (except Researcher)</i>	<b>30,998</b>	<b>20,573</b>	<b>10,425</b>	<b>3,251,028</b>
<b>Penyelidik</b> <i>Researcher</i>	<b>1,741</b>	<b>1,146</b>	<b>595</b>	<b>217,366</b>
<b>Juruteknik dan profesional bersekutu</b> <i>Technicians and associate professionals</i>	<b>29,730</b>	<b>21,703</b>	<b>8,027</b>	<b>1,807,922</b>
<b>Pekerja sokongan perkeranian</b> <i>Clerical support workers</i>	<b>16,754</b>	<b>5,225</b>	<b>11,529</b>	<b>372,371</b>
<b>Pekerja perkhidmatan dan jualan</b> <i>Service and sales workers</i>	<b>8,610</b>	<b>4,971</b>	<b>3,639</b>	<b>157,859</b>
<b>Pekerja kemahiran dan pekerja pertukangan yang berkaitan</b> <i>Craft and related trades workers</i>	<b>3,508</b>	<b>2,797</b>	<b>711</b>	<b>112,314</b>
<b>Operator mesin, loji dan pemasang</b> <i>Plant and machine operators, and assemblers</i>	<b>2,006</b>	<b>1,153</b>	<b>853</b>	<b>14,911</b>
<b>Pekerjaan asas</b> <i>Elementary occupations</i>	<b>12,887</b>	<b>7,315</b>	<b>5,572</b>	<b>225,176</b>
<b>Pekerja bergaji (sambilan)</b> <i>Paid employees (part-time)</i>	<b>736</b>	<b>487</b>	<b>249</b>	<b>14,996</b>



Jadual 6.7: Bilangan Pekerja bagi Pengaturcaraan Komputer, Perundingan dan Aktiviti yang Berkaitan mengikut Kumpulan, 2022

Table 6.7: Number of Persons Engaged in the Computer Programming, Consultancy and Related Activities by Group, 2022

Keterangan kumpulan <i>Group description</i>	Bilangan pertubuhan <i>Number of establishments</i>	Bilangan pekerja <i>Number of persons engaged</i>			
		Jumlah <i>Total</i>	Pemilik yang bekerja & rakan niaga yang aktif dan pekerja keluarga tanpa gaji <i>Working proprietor &amp; active business partners and unpaid family worker</i>	Pekerja bergaji (sepenuh masa) <i>Paid employees (full-time)</i>	Pekerja bergaji (sambilan) <i>Paid employees (part-time)</i>
<b>Jumlah</b> <i>Total</i>	<b>10,501</b>	<b>122,949</b>	<b>251</b>	<b>121,962</b>	<b>736</b>
<b>Aktiviti pengaturcaraan komputer</b> <i>Computer programming activities</i>	1,921	23,729	137	23,360	232
<b>Perkhidmatan perundingan komputer</b> <i>Computer consultancy services</i>	1,882	29,853	32	29,554	267
<b>Aktiviti pengurusan kemudahan komputer</b> <i>Computer facilities management activities</i>	522	25,963	44	25,885	34
<b>Aktiviti perkhidmatan teknologi maklumat lain</b> <i>Other information technology service activities</i>	6,176	43,404	38	43,163	203

**Jadual 7.1: Statistik Utama Aktiviti Perkhidmatan Maklumat, 2010, 2015 dan 2022***Table 7.1: Principal Statistics of Information Services Activities, 2010, 2015 and 2022*

<b>Tahun</b> <i>Year</i>	<b>Bilangan pertubuhan</b> <i>Number of establishments</i>	<b>Nilai output kasar</b> <i>Value of gross output</i>	<b>Nilai input perantaraan</b> <i>Value of intermediate input</i>	<b>Nilai ditambah</b> <i>Value added</i>	<b>Bilangan pekerja</b> <i>Number of persons engaged</i>	<b>Gaji &amp; upah</b> <i>Salaries &amp; wages</i>	<b>Nilai harta tetap</b> <i>Value of fixed assets</i>
		<b>(RM '000)</b>	<b>(RM '000)</b>	<b>(RM '000)</b>		<b>(RM '000)</b>	<b>(RM '000)</b>
<b>2022</b>	<b>2,006</b>	<b>8,373,172</b>	<b>3,533,054</b>	<b>4,840,118</b>	<b>17,832</b>	<b>1,433,805</b>	<b>1,408,957</b>
<b>2015</b>	<b>651</b>	<b>5,079,957</b>	<b>2,387,549</b>	<b>2,692,408</b>	<b>16,270</b>	<b>909,292</b>	<b>1,183,356</b>
<b>2010</b>	<b>205</b>	<b>3,744,555</b>	<b>1,242,892</b>	<b>2,501,663</b>	<b>13,284</b>	<b>579,329</b>	<b>601,488</b>

Jadual 7.2: Statistik Utama Aktiviti Perkhidmatan Maklumat mengikut Kumpulan, 2022

Table 7.2: Principal Statistics of Information Services Activities by Group, 2022

Keterangan kumpulan <i>Group description</i>	Bilangan pertubuhan <i>Number of establishments</i>	Nilai output kasar <i>Value of gross output</i>	Nilai input perantaraan <i>Value of intermediate input</i>	Nilai ditambah <i>Value added</i>	Bilangan pekerja <i>Number of persons engaged</i>	Gaji & upah <i>Salaries &amp; wages</i>	Nilai harta tetap <i>Value of fixed assets</i>
		(RM '000)	(RM '000)	(RM '000)		(RM '000)	(RM '000)
<b>Jumlah</b> <i>Total</i>	<b>2,006</b>	<b>8,373,172</b>	<b>3,533,054</b>	<b>4,840,118</b>	<b>17,832</b>	<b>1,433,805</b>	<b>1,408,957</b>
<b>Aktiviti penyediaan infrastruktur untuk hosting, perkhidmatan prosesan data dan aktiviti yang berkaitan</b> <i>Activities of providing infrastructure for hosting, data processing services and related activities</i>	616	4,129,810	1,892,767	2,237,043	7,116	609,620	916,291
<b>Aktiviti prosesan data</b> <i>Data processing activities</i>	243	2,119,170	732,045	1,387,125	6,393	547,625	142,981
<b>Web portal</b> <i>Web portals</i>	678	478,551	218,100	260,452	1,627	107,598	144,899
<b>Aktiviti perkhidmatan maklumat lain</b> <i>Other information service activities</i>	469	1,645,640	690,142	955,498	2,696	168,962	204,786

**Jadual 7.3: Statistik Utama Aktiviti Perkhidmatan Maklumat mengikut Negeri, 2022**

*Table 7.3: Principal Statistics of Information Services Activities by State, 2022*

Negeri <i>State</i>	Bilangan pertubuhan <i>Number of establishments</i>	Nilai output kasar <i>Value of gross output</i>	Nilai input perantaraan <i>Value of intermediate input</i>	Nilai ditambah <i>Value added</i>	Bilangan pekerja <i>Number of persons engaged</i>	Gaji & upah <i>Salaries &amp; wages</i>	Nilai harta tetap <i>Value of fixed assets</i>	
		(RM '000)	(RM '000)	(RM '000)		(RM '000)	(RM '000)	
<b>Jumlah <i>Total</i></b>	<b>2,006</b>	<b>8,373,172</b>	<b>3,533,054</b>	<b>4,840,118</b>	<b>17,832</b>	<b>1,433,805</b>	<b>1,408,957</b>	
Johor	99	104,885	32,479	72,406	298	15,292	58,245	
Kedah	}	11	8,977	2,605	6,372	20	1,072	808
Perlis								
Kelantan	}	7	1,158	479	679	12	237	370
Terengganu								
Melaka	25	12,123	5,047	7,076	94	3,089	10,621	
Negeri Sembilan	14	1,466	738	728	20	683	3,543	
Pahang	5	1,254	775	478	11	326	671	
Pulau Pinang	121	116,070	59,615	56,455	622	21,395	17,526	
Perak	25	30,686	18,248	12,438	65	2,409	3,042	
Selangor	840	4,610,233	1,773,094	2,837,139	9,664	824,336	800,851	
Sabah	18	12,976	6,118	6,858	77	2,494	3,251	
Sarawak	19	8,705	2,444	6,261	112	3,459	6,168	
W.P. Kuala Lumpur	816	3,459,387	1,629,007	1,830,379	6,808	557,866	499,797	
W.P. Labuan	}	6	5,253	2,404	2,849	29	1,145	4,065
W.P. Putrajaya								

Jadual 7.4: Statistik Utama Aktiviti Perkhidmatan Maklumat mengikut Taraf Sah, 2022

Table 7.4: Principal Statistics of Information Services Activities by Legal Status, 2022

Taraf sah <i>Legal Status</i>	Bilangan pertubuhan <i>Number of establishments</i>	Nilai output kasar <i>Value of gross output</i>	Nilai input perantaraan <i>Value of intermediate input</i>	Nilai ditambah <i>Value added</i>	Bilangan pekerja <i>Number of persons engaged</i>	Gaji & upah <i>Salaries &amp; wages</i>	Nilai harta tetap <i>Value of fixed assets</i>
		(RM '000)	(RM '000)	(RM '000)		(RM '000)	(RM '000)
<b>Jumlah</b> <i>Total</i>	<b>2,006</b>	<b>8,373,172</b>	<b>3,533,054</b>	<b>4,840,118</b>	<b>17,832</b>	<b>1,433,805</b>	<b>1,408,957</b>
<b>Hak milik perseorangan</b> <i>Individual proprietorship</i>	176	64,241	28,318	35,923	410	16,717	23,506
<b>Perkongsian</b> <i>Partnership</i>	28	13,275	5,279	7,996	78	2,998	6,777
<b>Perkongsian liabiliti terhad</b> <i>Limited liabilities partnership</i>	39	17,558	8,115	9,443	92	4,311	4,201
<b>Syarikat sendirian berhad</b> <i>Private limited company</i>	1,732	8,005,323	3,379,612	4,625,711	16,922	1,386,078	1,100,860
<b>Syarikat awam berhad</b> <i>Public limited company</i>	27	234,596	91,208	143,388	278	20,111	260,671
<b>Perbadanan awam</b> <i>Public corporation</i>	4	38,180	20,522	17,658	52	3,589	12,941

**Jadual 7.5: Statistik Utama Aktiviti Perkhidmatan Maklumat mengikut Hak Milik, 2022**

*Table 7.5: Principal Statistics of Information Services Activities by Ownership, 2022*

<b>Hak milik</b> <i>Ownership</i>	<b>Bilangan pertubuhan</b> <i>Number of establishments</i>	<b>Nilai output kasar</b> <i>Value of gross output</i>	<b>Nilai input perantaraan</b> <i>Value of intermediate input</i>	<b>Nilai ditambah</b> <i>Value added</i>	<b>Bilangan pekerja</b> <i>Number of persons engaged</i>	<b>Gaji &amp; upah</b> <i>Salaries &amp; wages</i>	<b>Nilai harta tetap</b> <i>Value of fixed assets</i>
		<b>(RM '000)</b>	<b>(RM '000)</b>	<b>(RM '000)</b>		<b>(RM '000)</b>	<b>(RM '000)</b>
<b>Jumlah</b> <i>Total</i>	<b>2,006</b>	<b>8,373,172</b>	<b>3,533,054</b>	<b>4,840,118</b>	<b>17,832</b>	<b>1,433,805</b>	<b>1,408,957</b>
<b>Residen Malaysia</b> <i>Malaysian residents</i>	2,001	8,099,497	3,419,605	4,679,892	17,723	1,422,460	1,407,352
<b>Bukan residen Malaysia</b> <i>Non-Malaysian residents</i>	}	5	273,675	113,449	160,226	109	11,345
<b>Hak milik bersama</b> <i>Joint ownership</i>							

**Jadual 7.6: Bilangan Pekerja dan Gaji & Upah bagi Aktiviti Perkhidmatan Maklumat mengikut Kategori Pekerja, 2022**  
**Table 7.6: Number of Persons Engaged and Salaries & Wages in the Information Services Activities by Category of Workers, 2022**

Kategori pekerja <i>Category of worker</i>	Bilangan pekerja <i>Number of persons engaged</i>			Gaji & upah <i>Salaries &amp; wages</i>  (RM '000)
	Jumlah <i>Total</i>	Lelaki <i>Male</i>	Perempuan <i>Female</i>	
<b>Jumlah</b> <i>Total</i>	<b>17,832</b>	<b>11,866</b>	<b>5,966</b>	<b>1,433,805</b>
<b>Jumlah pemilik yang bekerja &amp; rakan niaga yang aktif dan pekerja keluarga tanpa gaji</b> <i>Total working proprietor &amp; active business partners and unpaid family workers</i>	<b>120</b>	<b>106</b>	<b>14</b>	<b>-</b>
<b>Pemilik yang bekerja dan rakan niaga yang aktif</b> <i>Working proprietor and active business partners</i>	<b>109</b>	<b>101</b>	<b>8</b>	<b>-</b>
<b>Pekerja keluarga tanpa gaji (semua ahli keluarga dan rakan yang tidak menerima upah yang tetap)</b> <i>Unpaid family workers (all members of family and friends not receiving regular wages)</i>	<b>11</b>	<b>5</b>	<b>6</b>	<b>-</b>
<b>Jumlah pekerja bergaji (sepenuh masa)</b> <i>Total paid employees (full-time)</i>	<b>17,308</b>	<b>11,431</b>	<b>5,877</b>	<b>1,423,107</b>
<b>Pengurus</b> <i>Managers</i>	<b>1,904</b>	<b>1,382</b>	<b>522</b>	<b>257,480</b>
<b>Profesional</b> <i>Professionals</i>	<b>5,740</b>	<b>3,897</b>	<b>1,843</b>	<b>669,580</b>
<b>Profesional (kecuali Penyelidik)</b> <i>Professionals (except Researcher)</i>	<b>4,978</b>	<b>3,560</b>	<b>1,418</b>	<b>583,010</b>
<b>Penyelidik</b> <i>Researcher</i>	<b>762</b>	<b>337</b>	<b>425</b>	<b>86,570</b>
<b>Juruteknik dan profesional bersekutu</b> <i>Technicians and associate professionals</i>	<b>3,185</b>	<b>2,511</b>	<b>674</b>	<b>205,518</b>
<b>Pekerja sokongan perkeranian</b> <i>Clerical support workers</i>	<b>2,789</b>	<b>1,141</b>	<b>1,648</b>	<b>152,776</b>
<b>Pekerja perkhidmatan dan jualan</b> <i>Service and sales workers</i>	<b>839</b>	<b>422</b>	<b>417</b>	<b>43,631</b>
<b>Pekerja kemahiran dan pekerja pertukangan yang berkaitan</b> <i>Craft and related trades workers</i>	<b>751</b>	<b>590</b>	<b>161</b>	<b>29,406</b>
<b>Operator mesin, loji dan pemasang</b> <i>Plant and machine operators, and assemblers</i>	<b>179</b>	<b>108</b>	<b>71</b>	<b>6,060</b>
<b>Pekerjaan asas</b> <i>Elementary occupations</i>	<b>1,921</b>	<b>1,380</b>	<b>541</b>	<b>58,657</b>
<b>Pekerja bergaji (sambilan)</b> <i>Paid employees (part-time)</i>	<b>404</b>	<b>329</b>	<b>75</b>	<b>10,698</b>

**Jadual 7.7: Bilangan Pekerja bagi Aktiviti Perkhidmatan Maklumat mengikut Kumpulan, 2022**

*Table 7.7: Number of Persons Engaged in the Information Services Activities by Group, 2022*

Keterangan kumpulan <i>Group description</i>	Bilangan pertubuhan <i>Number of establishments</i>	Bilangan pekerja <i>Number of persons engaged</i>			
		Jumlah <i>Total</i>	Pemilik yang bekerja & rakan niaga yang aktif dan pekerja keluarga tanpa gaji <i>Working proprietor &amp; active business partners and unpaid family worker</i>	Pekerja bergaji (sepenuh masa) <i>Paid employees (full-time)</i>	Pekerja bergaji (sambilan) <i>Paid employees (part-time)</i>
<b>Jumlah</b> <i>Total</i>	<b>2,006</b>	<b>17,832</b>	<b>120</b>	<b>17,308</b>	<b>404</b>
<b>Aktiviti penyediaan infrastruktur untuk hosting, perkhidmatan prosesan data dan aktiviti yang berkaitan</b> <i>Activities of providing infrastructure for hosting, data processing services and related activities</i>	616	7,116	109	6,816	191
<b>Aktiviti prosesan data</b> <i>Data processing activities</i>	243	6,393	1	6,227	165
<b>Web portal</b> <i>Web portals</i>	678	1,627	10	1,601	16
<b>Aktiviti perkhidmatan maklumat lain</b> <i>Other information service activities</i>	469	2,696	0	2,664	32



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### 1. SKOP DAN LIPUTAN

Survei ini meliputi pertubuhan berdaftar yang terlibat dalam **perkhidmatan Maklumat dan komunikasi** yang merangkumi aktiviti utama berikut:

- i. Penerbitan;
- ii. Penerbitan wayang gambar, video & program televisyen, rakaman bunyi & penerbitan muzik;
- iii. Pemrograman & penyiaran;
- iv. Perkhidmatan telekomunikasi;
- v. Pengaturcaraan komputer, perundingan & aktiviti yang berkaitan; dan
- vi. Perkhidmatan maklumat.

Keseluruhan liputan survei bagi Perkhidmatan Maklumat dan Komunikasi terdiri daripada 35 industri di peringkat 5-digit mengikut Piawaian Klasifikasi Industri Malaysia (MSIC), 2008. Senarai lengkap industri yang diliputi ditunjukkan di **Lampiran**.

Liputan bagi tahun 2010 ke atas dan 2009 ke bawah adalah tidak sama disebabkan pengelasan aktiviti yang berbeza (tahun 2010 ke atas – MSIC 2008; tahun 2009 ke bawah - MSIC 2000). Aktiviti penerbitan tidak diliputi dalam Perkhidmatan Maklumat dan Komunikasi sebelum tahun 2009 dan aktiviti penerbitan wayang gambar, video dan program televisyen, rakaman bunyi dan

### 2. SUMBER RANGKA STATISTIK

Sumber utama rangka statistik pertubuhan adalah daripada *Malaysia Statistical Business Register* (MSBR) manakala bagi subsektor Penginapan termasuk perniagaan inap desa yang tidak berdaftar. MSBR adalah senarai pertubuhan/ perusahaan yang beroperasi di Malaysia yang merangkumi Daftar syarikat (ROC), Daftar Perniagaan (ROB) dan Perkongsian Liabiliti Terhad (LLP) yang berdaftar dengan Suruhanjaya Syarikat Malaysia (SSM) serta pertubuhan yang berdaftar dengan Pihak Berkuasa Tempatan (PBT) dan badan profesional. Senarai di MSBR dikemas kini secara berkala berdasarkan survei dan bancian yang dijalankan oleh Jabatan Perangkaan Malaysia (DOSM) dan sumber data pentadbiran daripada agensi lain. Sumber utama data pentadbiran adalah daripada SSM.

Selain itu, DOSM juga bekerjasama dengan agensi lain seperti Kumpulan Wang Simpanan Pekerja (KWSP), Jabatan Kastam Diraja Malaysia, Lembaga Hasil Dalam Negeri (LHDN), Pertubuhan Keselamatan Sosial (PERKESO), PBT dan badan profesional. Rangka dikemaskini untuk mengambil kira pertubuhan baru dan sebarang perubahan yang berlaku kepada pertubuhan tersebut seperti tutup, tidak beroperasi, perubahan jenis aktiviti dan lokasi/ alamat pos untuk memastikan maklumat yang terdapat dalam rangka adalah yang paling terkini.

### 3. JENIS AKTIVITI PERNIAGAAN

Jenis aktiviti perniagaan merujuk kepada aktiviti utama dan sekunder. Aktiviti utama merujuk kepada aktiviti yang mana pertubuhan menumpukan sebahagian besar sumbernya atau memberi sumbangan besar dari segi pendapatan. Aktiviti sekunder didefinisikan sebagai aktiviti sampingan kepada aktiviti utama. Klasifikasi industri bagi pertubuhan adalah berasaskan kepada aktiviti utama dan Piawaian Klasifikasi Industri Malaysia (MSIC), 2008 Versi 1.0. MSIC 2008 yang diselaraskan dengan *International Standard Industrial Classification of All Economic Activities (ISIC), Rev. 4, United Nations* dan pengubahsuaian mengikut keperluan tempatan.

### 4. KONSEP DAN DEFINISI

Konsep dan definisi Perkhidmatan Maklumat dan Komunikasi yang diguna pakai dalam penerbitan ini berasaskan kepada Piawaian Klasifikasi Industri Malaysia (MSIC) 2008 Ver 1.0:

#### i. Aktiviti penerbitan

Aktiviti penerbitan termasuk pemerolehan hak cipta terhadap kandungan (produk informasi) dan menjadikan kandungan ini tersedia kepada umum menerusi (atau mengatur bagi) pengeluaran semula dan pengedaran dalam pelbagai bentuk. Semua bentuk penerbitan yang boleh dihasilkan (dalam bentuk cetakan, elektronik atau audio, di internet, sebagai produk multimedia seperti buku rujukan dalam bentuk CD-ROM, dll.), diliputi dalam bahagian ini kecuali penerbitan wayang gambar.

#### ii. Aktiviti penerbitan wayang gambar, video dan program televisyen, rakaman bunyi dan penerbitan muzik

Aktiviti penerbitan wayang gambar, video dan program televisyen, rakaman bunyi dan penerbitan muzik termasuk pengeluaran wayang gambar untuk panggung dan bukan panggung sama ada filem, pita video atau cakera untuk tayangan di pawagam atau siaran televisyen; aktiviti sokongan seperti suntingan, tapisan dan alih suara filem dll; pengedaran wayang gambar dan produksi filem lain kepada industri lain; termasuk tayangan wayang gambar atau produksi filem lain.

Juga termasuk pembelian dan penjualan wayang gambar atau hak penyebaran pengeluaran filem lain. Selain itu, ia juga termasuk aktiviti rakaman bunyi seperti mengeluarkan, menyiar, mempromosi dan mengedar rakaman bunyi asal, penerbitan muzik dan juga aktiviti perkhidmatan rakaman bunyi di studio dan di tempat lain.

#### 4. KONSEP DAN DEFINISI (SAMB.)

##### iii. Aktiviti pemrograman dan penyiaran

Aktiviti pemrograman dan penyiaran termasuk aktiviti mencipta atau mendapat hak untuk mengedar dan menyiar kandungan rancangan radio, televisyen dan program data hiburan, berita, bual bicara dan seumpamanya. Termasuk juga penyiaran data biasanya diintegrasikan bersama siaran radio atau televisyen. Penyiaran boleh dilakukan menggunakan pelbagai teknologi melalui siaran ke udara, satelit, kabel atau internet. Bahagian ini juga termasuk pengeluaran rancangan yang tertumpu kepada langganan atau dasar yuran kepada pihak ketiga untuk siaran umum (format khusus seperti berita, sukan, pendidikan, program remaja).

##### iv. Perkhidmatan telekomunikasi

Perkhidmatan telekomunikasi termasuk aktiviti menyediakan perkhidmatan telekomunikasi dan aktiviti yang berkaitan, seperti transmisi suara, data, teks, bunyi dan video. Kemudahan transmisi ini mungkin berasaskan satu teknologi atau kombinasi bagi teknologi tersebut. Lazimnya aktiviti yang diklasifikasikan dalam bahagian ini adalah transmisi kandungan tanpa melibatkan penciptaannya. Pecahan di dalam bahagian ini adalah bergantung kepada jenis infrastruktur yang beroperasi.

##### v. Pengaturcaraan komputer, perundingan dan aktiviti yang berkaitan

Pengaturcaraan komputer, perundingan dan aktiviti yang berkaitan termasuk aktiviti penyediaan kepakaran di dalam bidang teknologi maklumat seperti penulisan, pengubahsuaian, percubaan dan perisian sokongan bagi memenuhi kehendak pelanggan tertentu; merancang dan mereka bentuk sistem komputer dengan mengintegrasikan teknologi perkakasan, perisian komputer dan komunikasi, pengurusan di lapangan dan operasi sistem komputer pelanggan dan / atau kemudahan memproses data; menyediakan infrastruktur untuk *hosting* atau perkhidmatan prosesan data, dan aktiviti perkhidmatan profesional dan teknikal yang berkaitan dengan komputer.

##### vi. Aktiviti perkhidmatan maklumat

Aktiviti perkhidmatan maklumat termasuk aktiviti carian web portal, prosesan data dan *hosting*, serta aktiviti lain pembekalan maklumat.

#### 5. TAHUN BANCI

Merujuk kepada tahun pelaksanaan bancian dijalankan.

## **6. TAHUN RUJUKAN**

Tahun rujukan bagi penerbitan ini adalah tahun takwim 2022. Pertubuhan yang mempunyai tahun kewangan yang berbeza daripada tahun takwim diminta menyediakan laporan mengikut tahun perakaunan atau kewangan yang meliputi sekurang-kurangnya enam (6) bulan dalam tahun rujukan.

## **7. KAEDAH PENGUMPULAN**

Bancian ini secara umumnya dijalankan dengan menggunakan tiga (3) kaedah pengumpulan data seperti berikut:

### **7.1 Kaedah atas talian melalui portal e-BE**

Kaedah ini menyasarkan responden yang telah menggunakan kaedah ini bagi survei rutin terdahulu.

### **7.2 Kaedah kutipan data melalui e-mel, pos, faks dan telefon**

Kaedah ini menyasarkan responden yang pernah terlibat dengan survei rutin terdahulu. Responden diberi tempoh satu bulan untuk melengkapkan dan mengembalikan borang soal selidik tersebut kepada DOSM.

### **7.3 Kaedah kutipan data secara bersemuka**

Kerja luar operasi di lapangan dijalankan untuk mendapatkan maklum balas daripada pertubuhan yang belum memberi jawapan dari kedua-dua kaedah di atas dan kaedah ini menyasarkan pertubuhan yang tidak pernah terlibat dengan survei rutin DOSM.

## **8. UNIT PELAPOR**

Unit pelapor bagi Banci Ekonomi 2023 ini ialah pertubuhan. Sesebuah pertubuhan secara ideal ditakrifkan sebagai “satu unit ekonomi yang bergiat di bawah satu hak milik atau penguasaan tunggal, iaitu di bawah satu entiti yang sah. Ia menjalankan satu jenis subsektor ekonomi utama di satu tempat / lokasi fizikal”. Setiap pertubuhan diberikan klasifikasi industri berdasarkan aktiviti utamanya dan bukannya mengikut aktiviti syarikat induk.

Setiap cawangan daripada organisasi yang mempunyai beberapa cawangan di lokasi yang berbeza dari segi konsep dianggap sebagai pertubuhan yang berlainan. Pertubuhan berkenaan diminta memberikan penyata yang berasingan bagi setiap kegiatannya dari segi nilai. Walau bagaimanapun, dari segi praktis akaun biasanya disediakan secara berpusat kerana kesukaran untuk memperoleh data yang berasingan bagi setiap unit atau cawangan. Entiti atau ‘*enterprise*’ ini akan dianggap sebagai satu unit pelapor dan dibenarkan mengemukakan soal selidik yang menggabungkan semua unit atau cawangannya.

## 9. TARAF SAH

Taraf sah sesebuah pertubuhan telah ditakrifkan seperti berikut:

### 9.1 Hak milik perseorangan

Merujuk kepada perniagaan yang dimiliki dan dijalankan oleh orang perseorangan semata-mata untuk mendapatkan keuntungan sendiri. Pemilik mempunyai hak mutlak atas segala urusan pertubuhannya.

### 9.2 Perkongsian

Merujuk kepada sekumpulan individu yang telah bersetuju mengikat kontrak dan menjalankan perniagaan dengan matlamat untuk memperoleh keuntungan. Perniagaan tersebut diuruskan oleh kesemua mereka atau salah seorang daripada mereka yang bertindak mewakili semua pihak. Perkongsian perniagaan ini hendaklah mengandungi sekurang-kurangnya dua orang ahli dan tidak melebihi had maksimum dua puluh orang.

### 9.3 Perkongsian liabiliti terhad

Merujuk kepada perniagaan entiti yang dikawal selia di bawah Akta Perkongsian Liabiliti Terhad 2012. Ia memberi perlindungan liabiliti terhad kepada rakan-rakan kongsinya sama seperti liabiliti terhad yang dinikmati oleh pemegang saham sesebuah syarikat. Ia juga memberi fleksibiliti peraturan perniagaan dalaman melalui pengaturan perkongsian yang serupa dengan sesebuah perkongsian konvensional.

### 9.4 Syarikat sendirian berhad

Merupakan syarikat persendirian yang ditubuhkan bagi tujuan menjalankan perniagaan dengan matlamat untuk mencari keuntungan. Saham dipegang secara tertutup oleh pemegang-pemegang saham yang mempunyai kawalan terhadap operasi syarikat;

Ciri-ciri:

- i. Dikawal di bawah Akta Syarikat 1965 dan merupakan entiti yang sah terpisah daripada pemilik;
- ii. Dimiliki oleh 2 - 50 orang pemegang saham;
- iii. Pemilik syarikat mempunyai liabiliti terhad;
- iv. Pemegang saham yang memiliki 51 peratus atau lebih daripada jumlah saham syarikat berhak untuk mengawal syarikat tersebut. Saham syarikat boleh dijual beli tetapi tidak dilakukan di pasaran terbuka;
- v. Penjualan saham mesti dengan persetujuan pemegang saham yang lain;
- vi. Tidak disenaraikan di Bursa; dan
- vii. Jangka hayat perniagaan adalah panjang dan boleh dikenali perkataan Sendirian Berhad (Sdn. Bhd.) pada akhir nama syarikat.



## **9. TARAF SAH (SAMB.)**

### **9.5 Syarikat awam berhad**

Syarikat awam berhad merupakan perniagaan yang ditubuhkan dengan tanggungan berhad, oleh sekurang-kurangnya dua orang untuk menjalankan perniagaan dengan tujuan untuk mencari keuntungan. Saham syarikat awam berhad ini dipegang secara terbuka dan bagi sesebuah syarikat yang disenaraikan di Bursa Malaysia, sahamnya boleh bertukar milik secara bebas;

Ciri-ciri:

- i. Dikawal di bawah Akta Syarikat 1965 dan merupakan entiti yang sah terpisah daripada pemilik;
- ii. Dimiliki oleh pemegang saham dan tiada had bagi pemilik saham berkenaan;
- iii. Pengurusan dan kawalan syarikat adalah di bawah tanggungjawab Lembaga Pengarah yang dilantik oleh pemegang saham; dan
- iv. Disenaraikan di Bursa Malaysia.

### **9.6 Syarikat koperasi**

Koperasi adalah organisasi yang ditubuhkan untuk faedah bersama ahli dan didaftarkan di bawah Akta Koperasi 1993. Kumpulan wang yang ada adalah milik bersama untuk memenuhi keperluan ahli-ahlinya.

### **9.7 Perbadanan awam**

Merupakan sebuah perbadanan yang ditubuhkan di bawah Akta Khas Parlimen atau Dewan Perundangan Negeri.

### **9.8 Pertubuhan persendirian tidak mencari keuntungan**

Merujuk kepada syarikat tanpa saham yang ditubuhkan dengan tanggungan berhad. Kebanyakan syarikat ini terdiri daripada pertubuhan kebajikan, keagamaan, pendidikan, kesihatan, kebudayaan, rekreasi dan pertubuhan yang memberikan perkhidmatan sosial dan kemasyarakatan kepada isi rumah. Perkhidmatan diberikan secara percuma atau pada harga yang tidak melebihi kos perkhidmatan (subsidi). Sebarang keuntungan yang diperoleh dilabur semula ke dalam pertubuhan berkenaan.

## 10. STRUKTUR HAK MILIK

Hak milik sesebuah pertubuhan dikelaskan mengikut taraf residen pemilik/ pemilik-pemilik modal berbayar yang terbesar (melebihi 50%) dan bukannya mengikut taraf kewarganegaraan mereka. Dalam kes di mana setiap pihak (Residen Malaysia dan Bukan Residen Malaysia) memegang bilangan saham yang sama banyak dalam perniagaan berkenaan, maka pertubuhan tersebut telah dikelaskan di bawah "Hak Milik Bersama".

Residen Malaysia ialah individu, syarikat atau organisasi lain yang lazimnya terletak di Malaysia untuk jangka masa sekurang-kurangnya satu tahun. Cawangan dan anak syarikat asing yang didaftarkan/ diperbadankan di Malaysia adalah dianggap sebagai Residen Malaysia.

Bukan Residen Malaysia ialah individu, syarikat atau organisasi lain yang lazimnya terletak di negara selain Malaysia. Cawangan dan anak syarikat milik Residen Malaysia di luar negara juga dianggap sebagai Bukan Residen Malaysia.

## 11. NILAI OUTPUT KASAR

- + Pendapatan daripada perkhidmatan yang diberikan
- + Pendapatan daripada perkhidmatan pembaikan dan penyelenggaraan telekomunikasi serta perkhidmatan instalasi rangkaian telekomunikasi
- + Pendapatan daripada pengiklanan dan ruang pengiklanan atas talian
- + Pendapatan langganan dan pendapatan daripada pembekalan rancangan kepada pertubuhan penyiaran lain
- + Royalti, hakcipta, perlesenan dan yuran francais dan lesen hak cipta untuk menggunakan kandungan sindiket media
- + Komisen dan brokeraj yang diperoleh dan pendapatan daripada perkhidmatan pengurusan
- + Pendapatan daripada sewa (kecuali tanah) dan pemajakan pemasangan komputer
- + Nilai jualan (barang / bahan yang dibeli untuk dijual semula tanpa melalui proses selanjutnya)
- + Pendapatan operasi lain
- + Perbelanjaan penyelidikan dan pembangunan dalaman
- + Harta tetap dibuat / dibina sendiri
- Kos barang dijual (barang / bahan yang dibeli untuk dijual semula tanpa melalui proses selanjutnya)

## 12. NILAI INPUT PERANTARAAN

Nilai input perantaraan perkhidmatan Maklumat dan komunikasi ditakrifkan dengan memasukkan perkara berikut:

- + Pembelian barangan, bahan dan perkhidmatan
- + Bayaran pemprosesan data dan lain-lain yang berkaitan dengan teknologi maklumat
- + Kos bahan yang digunakan termasuk bahan untuk pembaikan dan penyelenggaraan
- + Kos filem dibeli untuk tayangan, bayaran kepada pembekal rancangan dan bayaran untuk penyewaan filem
- + Jumlah bayaran *outsourcing*, bayaran pembaikan dan penyelenggaraan semasa yang dibuat oleh pihak lain serta bayaran untuk membekalkan pekerja
- + Bayaran perhubungan antara tempatan dan bayaran keluar antarabangsa
- + Bayaran royalti kepada organisasi bukan kerajaan / tajaan korporat (tempatan dan luar negara)
- + Bayaran telekomunikasi, percetakan serta pengiklanan & promosi
- + Perbelanjaan elektrik, air, bahan pembakar, pelincir, gas, alat tulis, bekalan pejabat dan bekalan lain
- + Bayaran perkhidmatan keselamatan dan tuntutan waranti
- + Perbelanjaan operasi dan sewaan operasi
- + Bayaran kepada pengarah tidak bekerja kerana kehadiran mereka dalam mesyuarat Lembaga Pengarah
- + Nilai pakaian percuma yang disediakan dan kos latihan kepada pekerja
- + Perbelanjaan operasi lain
- Perubahan stok (Stok akhir - Stok awal)

## 13. NILAI DITAMBAH

Nilai ditambah adalah tambahan kepada nilai barangan dan perkhidmatan yang dikeluarkan oleh sesebuah pertubuhan. Nilai ditambah diperoleh daripada perbezaan antara nilai output kasar dengan nilai input perantaraan.

## 14. BILANGAN PEKERJA

Statistik tenaga buruh menggunakan pelbagai istilah untuk menerangkan pasaran buruh, bergantung kepada definisi, skop dan liputan statistik yang diterbitkan.

Istilah bilangan **penduduk bekerja** di dalam statistik yang diterbitkan oleh DOSM melalui Survei

#### 14. BILANGAN PEKERJA (SAMB.)

Tenaga Buruh (STB) merujuk kepada bilangan penduduk yang berumur antara 15 hingga 64 tahun yang bekerja sekurang-kurangnya sejam semasa minggu rujukan untuk mendapatkan upah, keuntungan atau keuntungan keluarga (sebagai majikan, pekerja, bekerja sendiri atau pekerja keluarga tanpa gaji).

Manakala statistik bilangan **Jawatan Diisi** di dalam Statistik Guna Tenaga pula merujuk kepada bilangan pekerja yang bekerja pada akhir setiap bulan, termasuk pekerja sepenuh masa dan pekerja separuh masa; pekerja tetap, sementara atau bermusim; pekerja bergaji bulanan dan pekerja yang dibayar gaji berdasarkan jam bekerja; pekerja yang sedang bercuti jangka pendek seperti cuti sakit atau cuti rehat; dan pekerja yang baru diambil bagi mengisi kekosongan pada suku tahun berkenaan. Statistik ini tidak meliputi pemilik perseorangan dan rakan niaga; pekerja keluarga tanpa gaji; pekerja yang terlibat dalam mogok sepanjang bulan berkenaan; pekerja yang bercuti tanpa gaji sepanjang bulan berkenaan; dan pekerja yang dibekalkan oleh agensi lain seperti subkontraktor dan perunding.

Sementara itu, bilangan **pekerja formal** di dalam Statistik Upah Pekerja Suku Tahunan pula merujuk kepada bilangan individu yang bekerja di bawah kontrak perkhidmatan atau latihan perintisan bermajikan dan menerima ganjaran untuk kerja yang diselesaikan. Walau bagaimanapun, pekerja formal tidak merangkumi individu di bawah pekerjaan bukan standard, termasuk individu bekerja sendiri, pekerja gig, pekerja akaun sendiri, pekerja keluarga tanpa gaji, dan sebagainya.

**Bagi penerbitan Banci Ekonomi 2023, bilangan pekerja merujuk kepada bilangan orang yang bekerja untuk pertubuhan yang dibanci pada bulan Disember atau pada tempoh pembayaran gaji terakhir tahun rujukan.** Bilangan orang yang bekerja dikategorikan seperti berikut:

##### 14.1 Pemilik yang bekerja dan rakan niaga yang aktif

Kategori ini merujuk kepada semua pemilik perseorangan dan rakan niaga, sambilan atau sepenuh masa, yang bekerja dengan aktif dalam sesebuah pertubuhan itu. Justeru, ia tidak termasuk rakan niaga yang tidak aktif.

##### 14.2 Pekerja keluarga tidak bergaji

Kategori ini meliputi semua ahli isi rumah kepada pemilik pertubuhan yang melaksanakan kerja tertentu (sepenuh masa atau sambilan) dan bekerja sekurang-kurangnya satu pertiga daripada waktu bekerja biasa yang diamalkan oleh pertubuhan berkenaan tanpa mendapat bayaran secara tetap, sama ada dalam bentuk wang tunai atau harta benda bagi kerja yang dilakukan. Biasanya pekerja berkenaan mendapat makanan, tempat tinggal dan bantuan lain sebagai sebahagian daripada ahli isi rumah pemilik tersebut dan terus mendapatnya sama ada ia bekerja atau tidak dalam pertubuhan itu.

## **14. PEKERJA (SAMB.)**

### **14.3 Pekerja bergaji (sepenuh masa)**

Merujuk kepada semua pekerja bergaji (sepenuh masa) yang bekerja sekurang-kurangnya enam jam sehari dan/atau 20 hari sebulan. Pekerja bergaji (sepenuh masa) telah dikategorikan berdasarkan Piawaian Pengkelasan Pekerjaan Malaysia (MASCO) 2020 seperti berikut:

#### **i. Pengurus, profesional dan penyelidik meliputi:**

##### **a. Pengurus**

Merujuk kepada mereka yang menggubal, menganalisa, merumus, mengarah dan memberi nasihat tentang dasar kerajaan, dan membuat, memansuhkan undang-undang, kaedah dan peraturan awam, dan mewakili serta bertindak bagi pihak kerajaan, dan memantau pentafsiran dan pelaksanaan dasar dan undang-undang kerajaan, atau menjalankan tugas yang seumpamanya bagi pihak pertubuhan berkepentingan khas, atau mengatur, memimpin, mengawal dan menyelaras dasar dan aktiviti perusahaan, organisasi, jabatan atau seksyen dalamannya; dan

##### **b. Profesional**

Merujuk kepada mereka yang bertanggung jawab untuk meningkatkan ilmu pengetahuan sedia ada, mengaplikasikan konsep dan teori saintifik atau artistik, mengajar tentang perkara tersebut dengan cara bersistematik, atau terlibat dalam apa-apa gabungan tiga aktiviti di atas.

#### **ii. Juruteknik dan profesional bersekutu**

Merujuk kepada mereka yang melakukan tugas teknikal dan tugas yang berkaitan dengan penyelidikan dan pengaplikasian konsep sains atau seni dan kaedah operasi, dan peraturan kerajaan atau perniagaan

#### **iii. Perkeranian, pekerja perkhidmatan & jualan, kemahiran khas, operator mesin & loji dan pekerjaan yang berkaitan:**

##### **a. Pekerja sokongan perkeranian**

Merujuk kepada mereka yang merekod, mengurus, menyimpan dan mendapatkan maklumat yang berkaitan, dan menjalankan tugas-tugas perkeranian berhubung dengan operasi pentadbiran, pengendalian wang, urusan perjalanan, permintaan maklumat dan janji temu;

### 14. PEKERJA (SAMB.)

#### b. Pekerja perkhidmatan dan jualan

Merujuk kepada mereka yang menyediakan perkhidmatan peribadi berkaitan dengan perjalanan, pengemasan, katering, penjagaan diri, atau perlindungan dari kebakaran dan undang-undang yang berkaitan, atau menunjuk cara dan menjual barangan di kedai borong atau runcit dan pertubuhan seumpamanya termasuk di gerai dan pasar;

#### c. Pekerja kemahiran dan pekerja pertukangan yang berkaitan

Merujuk kepada mereka yang mengaplikasikan pengetahuan dan kemahiran khusus dalam bidang perlombongan dan pembinaan, penempaan logam, dan mendirikan struktur logam; membuat, melaraskan, menyelenggara dan membaik pulih jentera, kelengkapan atau peralatan; menjalankan kerja pencetakan; dan mengeluarkan atau memproses barang makanan, tekstil atau kayu, logam dan barangan lain termasuk barang kraftangan; dan

#### d. Operator mesin & loji, dan pemasang

Merujuk kepada mereka yang mengendalikan dan mengawasi jentera dan kelengkapan perindustrian dan pertanian; memandu dan mengendalikan kereta api, kenderaan bermotor, jentera dan kelengkapan bergerak; atau memasang bahagian komponen produk mengikut spesifikasi dan prosedur yang ketat.

#### iv. Pekerja asas

Merujuk kepada mereka yang menjalankan tugas yang mudah, rutin dan tidak sistematik yang biasanya memerlukan penggunaan perkakas tangan atau dengan sokongan mesin yang mudah, dan memerlukan tenaga fizikal yang banyak.

#### 14.4 Pekerja bergaji (sambilan)

Ia merujuk kepada semua pekerja bergaji yang bekerja sekurang-kurangnya 6 jam sehari dan/ atau kurang daripada 20 hari sebulan.

### 15. KATEGORI KEMAHIRAN

Kategori kemahiran telah dikelaskan berdasarkan Piawaian Pengkelasan Pekerjaan Malaysia (MASCO) 2020 adalah seperti berikut:

#### i. Pekerja mahir

Pengurus dan profesional, penyelidik, juruteknik dan profesional bersekutu;

**15. KATEGORI KEMAHIRAN (SAMB.)**

**ii. Pekerja separuh mahir**

Pekerja sokongan perkeranian, perkhidmatan & jualan, kemahiran & pertukangan yang berkaitan serta operator mesin, loji dan pemasangan; dan

**iii. Pekerja berkemahiran rendah**

Pekerja asas.

**16. GAJI & UPAH**

Semua pembayaran (gaji, upah, bonus, komisyen, bayaran lebih masa dan elaun tunai termasuk belanja sara hidup, perumahan, kereta, makanan dan sebagainya) yang dibuat sepanjang tahun rujukan meliputi semua pekerja bergaji dalam setiap kategori pekerja yang diambil secara langsung termasuk jumlah bayaran yang dibuat adalah sebelum ditolak cukai pendapatan dan caruman pekerja kepada Kumpulan Wang Simpanan Pekerja (KWSP) / Pertubuhan Keselamatan Sosial (PERKESO) / Kumpulan wang simpanan lain/ Kumpulan Wang Persaraan (KWAP). Caruman majikan kepada kumpulan wang yang di atas hendaklah dikecualikan.

**17. NILAI HARTA TETAP**

Harta tetap meliputi semua barangan, baru atau terpakai, aset ketara atau aset tidak ketara yang digunakan secara berulang atau berterusan yang mempunyai hayat produktif lebih daripada setahun. Ia termasuk tanah, bangunan & struktur, alat pengangkutan, komputer, jentera & kelengkapan, perabot & pemasangan dan harta lain. Harta lain meliputi aset biologi iaitu pokok/ tanaman (kecuali pokok balak yang bertujuan untuk pembalakan), ternakan dan perikanan akuakultur yang mengeluarkan hasil berulang kali dan mempunyai jangka hayat lebih daripada satu tahun.

Nilai harta tetap awal dan akhir bagi tahun rujukan 2022 adalah berasaskan nilai buku bersih. Pembelian, pindaan dan pembaikan besar atau perbelanjaan modal pada tahun berkenaan dikira pada nilai kos sebenar yang dibayar. Nilai harta tetap yang dijual dalam tahun semasa juga dikira pada nilai sebenar. Perbelanjaan penyelidikan dan pembangunan turut diambil kira sebagai perbelanjaan harta selaras dengan *System of National Accounts (SNA) 2008*.

**18. PERTUBUHAN MILIKAN WANITA**

Pertubuhan milikan wanita merujuk kepada pertubuhan sekurang-kurangnya 51 peratus pemilikan ekuiti dipegang oleh wanita ATAU pemegang saham terbesar adalah wanita dan pertubuhan diuruskan oleh wanita ATAU Ketua Pegawai Eksekutif atau Pengarah Urusan adalah wanita yang memiliki sekurang-kurangnya 10 peratus ekuiti.

**19. PEMBUNDARAN**

Jumlah bagi angka komponen mungkin berbeza dengan jumlah besar disebabkan oleh pembundaran angka.

**20. KADAR PERTUMBUHAN TAHUNAN DIKOMPAN (CAGR)**

Kadar pertumbuhan tahunan dikompaun (r) adalah berdasarkan formula berikut;

$$y_t = y_0 (1+r)^t$$

di mana,

$$r = \left[ e^{\frac{1}{t} \ln\left(\frac{y_t}{y_0}\right)} - 1 \right] \times 100$$

$y_t$  = Nilai pada tahun semasa

$y_0$  = Nilai pada tahun sebelum

t = Bilangan tahun,  $y_t - y_0$

r = kadar pertumbuhan tahunan

**21. SIMBOL DAN SINGKATAN**

-	: tiada
%	: peratus
&	: dan
>	: lebih daripada
<	: kurang daripada
}	: digabungkan
b	: bilion
CAGR	: Kadar pertumbuhan tahunan dikompaun
RM	: Ringgit Malaysia
j	: Juta
dll.	: dan lain-lain
n.a	: tidak berkaitan
samb.	: sambungan
spt.	: seperti
t.t.t.l.	: tidak terkelas di tempat lain
W.P.	: Wilayah Persekutuan



## 1. SCOPE AND COVERAGE

The survey covered all registered establishments engaged in **Information and Communication Services** which included main activities as follows:

- i. Publishing;
- ii. Motion picture, video & television programme production, sound recording & music publishing;
- iii. Programming & broadcasting;
- iv. Telecommunication services;
- v. Computer programming, consultancy & related activities; and
- vi. Information services.

Overall, coverage of the survey for Information and Communication Services was 35 industries at 5-digit level under the Malaysia Standard Industrial Classification (MSIC), 2008. The complete lists of industries are shown in **Appendix**.

Coverage for year 2010 and above are not the same as the coverage in 2009 and below, due to differences in the classification of activity (2010 and above - MSIC 2008; 2009 and below - MSIC 2000). Publishing activities are not covered in Information and Communication Services prior to 2009 and motion picture, video and television programme production, sound recording and music

## 2. SOURCE OF FRAME

The main source for the establishment statistics frame is from the Malaysia Statistical Business Register (MSBR), while for the Accommodation sub-sector, includes unregistered homestay. MSBR is a list of establishments/ enterprises operating in Malaysia that includes the Register of Companies (ROC), Register of Business (ROB) and Limited Liability Partnership (LLP) registered with the Companies Commission of Malaysia (CCM) as well as establishments registered with local authorities (LA) and professional bodies. The list in the MSBR is updated regularly based on surveys and censuses conducted by the Department of Statistics Malaysia (DOSM) and administrative data sources from various agencies. The main source of administrative data is from the CCM.

In addition DOSM also works together to obtain the latest information from other agencies such as the Employees' Provident Fund (EPF), the Royal Malaysian Customs Department, the Inland Revenue Board (IRB), LA and professional bodies. The frame is updated by taking into account new establishments and any changes in the status of the establishments such as closed down, not in operation, change in activity and location/ correspondence address so as to ensure that the frame is at the most current status.

### 3. TYPE OF BUSINESS ACTIVITY

Type of business activity refers to both principal and secondary activities. The principal activity refers to the activity to which the establishment devoted most of its resources or activity which derived most of its income. Secondary activities are defined as those incidental or ancillary to the principal activity. The classification of the industry of the establishment is based on the principal activity and is in accordance with the Malaysia Standard Industrial Classification (MSIC) 2008 Ver. 1.0 conforms to the International Standard Industrial Classification of All Economic Activities (ISIC), Rev. 4, United Nations, with modifications to suit local conditions.

### 4. CONCEPTS AND DEFINITIONS

Concepts and definitions of Information and Communication Services adopted in this publication is based on the recommendations of the Malaysia Standard Industrial Classification (MSIC) 2008 Ver. 1.0:

#### i. Publishing activities

Publishing includes the acquisition of copyrights to content (information products) and making this content available to the general public by engaging in (or arranging for) the reproduction and distribution of this content in various forms. All the feasible forms of publishing (in print, electronic or audio form, on the internet, as multimedia products such as CD-ROM reference books, etc.), are included in this division except publishing of motion pictures.

#### ii. Motion picture, video and television programme production, sound recording and music publishing activities

Motion picture, video and television programme production, sound recording and music publishing activities include production of theatrical and non-theatrical motion pictures whether on film, video tape or disc for direct projection in theatres or for broadcasting on television; supporting activities such as film editing, cutting, dubbing, etc; distribution of motion pictures and other film productions projection to other industries; as well as motion picture or other film production projection.

Also included is buying and selling of motion picture or other film productions distribution rights. Besides, it also includes the sound recording activities, i.e. produce, release, promote and distribute the original sound master recordings, publishing of music as well as sound recording service activities in a studio or elsewhere.

**4. CONCEPTS AND DEFINITIONS (CONT.)**

**iii. Programming & broadcasting activities**

*Programming & broadcasting activities includes the activities of creating content or acquiring the right to distribute content and subsequently broadcasting that content, such as radio, television and data programme of entertainment, news, talk, and the like. Also included is data broadcasting, typically integrated with radio or TV broadcasting. The broadcasting can be performed using different technologies, over-the-air, via satellite, via a cable network or via internet. This division also includes the production of programme that are typically narrowcast in nature on a subscription or fee basis, to a third party, for subsequent broadcasting to the public (limited format, such as news, sports, education, or youth-oriented programming).*

**iv. Telecommunication services**

*Telecommunication services includes the activities of providing telecommunication and related service activities, i.e. transmitting voice, data, text, sound and video. The transmission facilities that carry out these activities may be based on a single technology or a combination of technologies. The commonality of activities classified in this division is the transmission of content, without being involved in its creation. The breakdown in this division is based on the type of infrastructure operated.*

**v. Computer programming, consultancy and related activities**

*Computer programming, consultancy and related activities includes the following activities of providing expertise in the field of information technologies such as writing, modifying, testing and supporting software to meet the needs of a particular customer; planning and designing computer systems that integrate computer hardware, software and communication technologies; on-site management and operation of clients' computer systems and/ or data processing facilities; providing infrastructure for hosting or data processing services; and other professional and technical computer related activities.*

**5. CENSUS YEAR**

*Refers to the year in which a census was conducted.*

**6. REFERENCE YEAR**

*The reference year of the census was the calendar year 2022. Establishments whose accounting year differed from calendar year were requested to report according to the accounting year or financial year covering at least six (6) months in the reference year.*

## **7. METHOD OF COLLECTION**

*This census was generally conducted through three (3) methods of data collection, namely:*

### **7.1 Online method through the e-BE portal**

*This method targets respondents who have used this method for previous routine surveys.*

### **7.2 Data collection method via e-mail, post, fax and telephone**

*This method targets respondents who have used this method for previous routine surveys. Respondents were given a period of one month to complete and return the questionnaire to the DOSM.*

### **7.3 Face-to-face data collection method**

*Field work operation is carried out to get feedback from establishments that have not yet given answers from the two methods above and this method also targets establishments that have never been involved in a routine survey of DOSM.*

## **8. REPORTING UNIT**

*The reporting unit used in the Economic Census 2023 is the establishment. An establishment is defined as "an economic unit engaged in one activity, under a single legal entity and operating in a single physical location". Each establishment is assigned an industry classification based on its principal activity and not according to the activities of the parent company.*

*Thus, each branch of a multi-branch organisation at a different location was conceptually treated as a different establishment. The establishment is requested to give separate returns for each activity in terms of value. However, if in practice, the accounts are centrally kept such that it was not possible to obtain separate data for each individual unit or branch. That entity or enterprise is treated as a single reporting unit and allowed to submit a consolidated questionnaire covering all units or branches.*

## **9. LEGAL STATUS**

*The legal status of an establishment is defined as follows:*

### **9.1 Individual proprietorship**

*This refers to a business, owned and operated by one person for his own profit. The owner has the exclusive right to control the operation of the establishment.*

## **9. LEGAL STATUS (CONT.)**

### **9.2 Partnership**

*This refers to a group of individuals who agree to contract and to carry out a business with the objective of profit making. All shareholders or anyone could manage the business for all parties. A trading partnership must comprise of at least two members and should not exceed a maximum of twenty members.*

### **9.3 Limited liabilities partnership**

*Refers to business entity regulated under the Limited Liability Partnerships Act 2012. It is featured with the protection of limited liability to its partners similar to the limited liability enjoyed by shareholders of a company coupled with flexibility of internal business regulation through partnership arrangement similar to a conventional partnership; and*

### **9.4 Private limited company**

*A private company established to undertake a business with the objective of making a profit. The shares are closely held by the shareholders of the company who have control over its operation.*

*Characteristics:*

- i. Regulated under the Companies Act 1965 and is a legal entity separate from the owners;*
- ii. Number of its shareholders between 2 - 50 members;*
- iii. Company owners have limited liability;*
- iv. Shareholders who own 51 per cent or more of the total shares shall be entitled to manage the company. The company's shares can be traded but not in the open market;*
- v. Trading of share must be with the consent of the other shareholders;*
- vi. Not listed on the Stock Exchange; and*
- vii. Business life expectancy is longer and can be identified by the words "Sendirian Berhad" (Sdn. Bhd.) at the end of the company name.*

### **9.5 Public limited company**

*A public limited company is a company established with limited liability, by a minimum of two persons to operate the business with the objective of making a profit. The shares in a public limited company are openly held and in the case of company listed on the Bursa Malaysia, the shares are freely transferable.*

### 9. LEGAL STATUS (CONT.)

#### 9.5 Public limited company (cont.)

*Characteristics:*

- i. Regulated under the Companies Act 1965 and is a legal entity separate from the owner;*
- ii. Owned by the shareholders and there is no limit to the shareholder;*
- iii. Management of the company is under the board of director responsibilities as appointed by shareholders; and*
- iv. Listed on Bursa Malaysia.*

#### 9.6 Co-operative

*This refers to a voluntary association with unrestricted number of members and registered under the Co-operatives Act 1993. Funds are collectively owned to meet the needs of members.*

#### 9.7 Public corporation

*This refers to an undertaking set up under a Special Act Parliament or by the State Legislature.*

#### 9.8 Private non-profit making organization

*This is non-stock company set up with limited liability. It comprises mainly welfare, religious, educational, health, cultural, recreational and other organisations providing social and community services to households. These services are provided free of charge or at prices, which do not necessarily or fully cover the cost of providing such services (subsidy). Any profit made is reinvested in the organisation.*

## 10 OWNERSHIP

*The ownership of an establishment is classified by the residential status of the owner (s) of the majority (more than 50%) of the paid-up capital and not by their citizenship status. In instances where each party (Malaysian Resident and Non- Malaysian Resident) held equal shares in the business, the establishments were classified as "Joint Ownership".*

*A Malaysian Resident is any individual, company or other organization ordinarily domiciled in Malaysia for a period of at least one year. Malaysian registered branches and incorporated subsidiaries of foreign based/origins are also regarded as Residents.*

*A Non-Malaysian Resident is any individual, company or other organization ordinarily domiciled in a country other than Malaysia. Foreign branches and/or subsidiaries abroad owned by Malaysian Residents are also regarded as Non-Residents.*

## 11. VALUE OF GROSS OUTPUT

*The value of gross output of **Information and communications services** is defined to include the following items:*

- + *Income from services rendered*
- + *Income from repair and maintenance services for telecommunication services and installation services for telecommunication networks*
- + *Income from advertising and online advertising space*
- + *Subscription income and income from providing program to other broadcasting establishments*
- + *Royalties, copyrights, licensing, franchise fees and licensing of rights to use syndicated media content*
- + *Income from commissions and brokerage earned and management services*
- + *Rental income received (except for rent of land) and leasing of computer hardware*
- + *Value of sales (good / materials purchased for resales without undergoing further processing)*
- + *Other operating income*
- + *In-house research and development expenditure*
- + *Built / self-produced fixed assets*
- *Cost of goods sold (goods/material purchased for resale without undergoing further processing)*

### 12. VALUE OF INTERMEDIATE INPUT

The value of intermediate input of **Information and communications services** is defined to include the following elements:

- + Purchase of goods, materials and services
- + Payment for data processing and other services related to information technology
- + Cost of material used includes materials for repairs and maintenance
- + Costs of films purchased for projection, payment for programmed provider and payment for rental of films
- + Amount paid for outsourcing, payment for current repairs & maintenance work done by others and payment for providing workers
- + Domestic interconnect and international out payment
- + Royalties paid to non-government organizations / corporate sponsorship (local and foreign)
- + Telecommunication, printing cost and advertising and promotion
- + Expenditure for electricity, water, fuel, lubricants, gas, stationery, office supplies and others
- + Payment for security services and warranty claim
- + Operation expenditure and Operational lease
- + Fees paid to non-working directors for their attendance at Board of Directors' meetings
- + Other operating expenditure
- Changes in stock (Closing stocks - Opening stocks)

Effective 2014, research and development expenditure has been removed from calculation of intermediate input and treated as capital asset in line with the Recommendation of System of National Accounts (SNA) 2008.

### 13. VALUE ADDED

Value added is increment to the value of commodities and services contributed by the establishment. Value added is derived as the difference between the value of gross output and value of intermediate input.

### 14. NUMBER OF PERSONS ENGAGED

Labour force statistics employ various terminologies to explain the labour market, depending on the definition, scope, and coverage of the published statistics.

The term number of **employed persons** in the statistics published by DOSM through the Labour Force Survey (LFS) refers to all persons aged 15 to 64 years who, at any time during the reference week, worked at least one hour for pay, profit, or family gain (as an employer, employee, own-account worker, or unpaid family worker).



#### **14. NUMBER OF PERSONS ENGAGED (CONT.)**

On the other hand, the number of **filled jobs** in the Employment Statistics refers to the persons employed at the end of each reference quarter, including full-time and part-time employees, permanent, short-term or seasonal employees, employees paid with monthly salaries or based on hours worked, employees on short vacation such as sick leave or annual leave, and newly hired employees to fill the vacancy in the current quarter. These statistics exclude proprietors and partners of unincorporated businesses, unpaid family workers, employees on strike during the quarter, employees on unpaid leave during the entire quarter, and employees provided by other agencies such as subcontractors and consultants.

Meanwhile, the number of **formal employees** in Employee Wages Statistics is refer to the person who works under a contract of service or apprenticeship with the employer and receives remuneration for the work completed. Formal employees do not include those who fall under non-standard employment, including self-employed, gig-workers, own-account workers, unpaid family workers, etc.

**In the Economic Census 2023 publication, the number of persons engaged refers to all working persons who worked for the establishments which has been censused; in December or the last pay period of the reference year. The number of persons engaged was classified under the following categories:**

##### **14.1 Working proprietors and active business partners**

This category refers to all individual proprietors and partners, part-time or full-time, who are actively engaged in the work of the establishment. Therefore, it excludes silent and inactive partners.

##### **14.2 Unpaid family workers**

This is defined as all persons (full-time or part-time) in the household of any of the owners of the establishment who perform a specified job and work for a minimum of one third of the normal working time for the establishment, but do not receive regular payment either in cash or in kind for the work done. Such workers generally receive food, shelter and other support as part of the household of an owner but this would continue whether they worked in the establishment or not.

##### **14.3 Paid employees (full-time )**

Refer to all paid workers (full-time) who work for at least six hours a day and/or 20 days a month. All such employees are to be categorised according to Malaysia Standard Classification of Occupations 2020 (MASCO) as follows:

### 14. NUMBER OF PERSONS ENGAGED (CONT.)

#### 14.3 Paid employees (full-time ) (cont.)

##### i. **Manager, professional and researcher included:**

###### a. **Manager**

*Refer to those who devise, analyse, formulate, direct and advise on government policy, and make, amend and repeal laws, public rules and regulations, and represent and act on behalf of the government, and oversee the interpretation and implementation of policies and government legislation, or carry out similar tasks on behalf of special interest organisations, or plan, organise, lead, control and coordinate the policies and activities of enterprises, organisations, departments or the internal section; and*

###### b. **Professional**

*Refer to those responsible for increase the existing stock of knowledge, apply scientific or artistic concepts and theories, teach about the foregoing in a systematic manner, or engage in any combination of these three activities.*

##### ii. **Technicians and associate professionals**

*Refer to those who perform technical and related tasks connected with research and the application of scientific or artistic concepts and operational methods, and government or business regulations.*

##### iii. **Clerical, services & sales workers, craft workers, plant & machine operators and related occupations includes:**

###### a. **Clerical support workers**

*Refer to those who record, organise, store and retrieve related information and perform clerical duties especially in connection with administrative operations, handling of money, travel arrangements and requests for information and appointments;*

###### b. **Service and sales workers**

*Refer to those who provide personal services related to travel, housekeeping, catering, personal care, or protection against fire and unlawful acts, or demonstrate and sell goods in wholesale or retail shops and similar establishments as well as at stalls and markets;*

**14. NUMBER OF PERSONS ENGAGED (CONT.)**

**c. Craft and related trades workers**

*Refer to those who apply their specific knowledge and skills in the fields of mining and construction, metal forming, and erect metal structures, make, fit, maintain and repair machinery, equipment or tools, carry out printing work as well as produce or process foodstuffs, textiles, or wooden, metal and other articles including handicraft goods; and*

**d. Plant & machine operators and assemblers**

*Refer to those who operate and monitor industrial and agricultural machinery and equipment, drive and operate trains, motor vehicles and mobile machinery and equipment, or assemble product component parts according to strict specifications and procedures*

**iv. Elementary occupations**

*Refer to those who perform simple, routine and non-systematic tasks which mainly require the use of handheld tools or with the assistance of simple machines, and in some cases considerable physical effort.*

**14.4 Paid part-time employees**

*This is defined as all paid workers who work for less than 6 hours a day and/or less than 20 days a month.*

**15. CATEGORY OF SKILLS**

*Category of skills has been categorized according to Malaysia Standard Classification of Occupations (MASCO) 2020 as follow:*

**i. High-skilled workers**

*Managers and professionals, researcher, technician and associate professionals;*

**ii. Semi-skilled workers**

*Clerical support, service and sales, craft and related trades workers and plant and machine operators and assemblers; and*

**iii. Low-skilled workers**

*Elementary occupations.*

### 16. SALARIES & WAGES

*All payments (salaries, wages, bonuses, commissions, overtime pay and cash allowances including cost of living, housing, car, food, etc.) made throughout the reference year to all paid employees in each category. For all directly employed workers, total payments made before deductions for income tax and employees' contributions to Employees' Provident Fund (EPF)/ Social Security Organisation (SOCSO)/ Other provident/ Retirement Funds Incorporated (KWAP). The employer's contribution to such funds as mentioned above should be excluded.*

### 17. VALUE OF FIXED ASSETS

*Fixed assets covers all goods, new or used, tangible, which have a normal economics life span of more than one year. For instance land, building & structure, transport equipment, computer, machinery & equipment, furniture & fittings and other assets. Other assets also include biological assets namely trees/ crops (except for logging trees that intended for logging), livestock and aquaculture fisheries which can produce products repeatedly and have a life expectancy of more than one year.*

*Value of assets as at the beginning and end of 2021 were based on net book value. Purchases, alterations and major repairs or capital expenditure during the year valued at actual cost incurred. Value of assets sold during the year refers to the realized value. Research and development expenditure also treated as capital asset in line with the recommendation of System of National*

### 18. WOMEN-OWNED ESTABLISHMENT

*Women-owned establishment refers to a minimum of 51 per cent of the equity held by a women OR the biggest shareholders are women and the establishment is managed by a women OR the Chief Executive Officer or Managing Director is women that owns at least 10 per cent of the equity.*

### 19. ROUNDING

*The sum of the component figures may not tally with the sub-total or total figures due to rounding.*

## 20. COMPOUND ANNUAL GROWTH RATE (CAGR)

The calculation of compound annual growth rate ( $r$ ) is based on the following formula:

$$y_t = y_0 (1+r)^t$$

Where,

$$r = \left[ e^{\frac{1}{t} \ln\left(\frac{y_t}{y_0}\right)} - 1 \right] \times 100$$

$y_t$  = Value at current year

$y_0$  = Value at previous year

$t$  = Number of years,  $y_t - y_0$

$r$  = Annual growth rate

## 21. SYMBOLS AND ABBREVIATIONS

-	: nil
%	: per cent
&	: and
>	: more than
<	: less than
}	: combined
b	: billion
CAGR	: Compounded annual growth rate
m	: million
RM	: Ringgit Malaysia
etc.	: et cetera
cont.	: continue
i.e	: that is
n.a	: Not available
n.e.c	: not elsewhere classified
W.P.	: Federal Territory

The page features decorative abstract shapes in the top right and bottom left corners. These shapes are composed of overlapping, layered bands in shades of yellow, grey, and light orange, creating a sense of depth and movement.

# Lampiran

## *Appendix*

**Muka surat ini sengaja dibiarkan kosong**

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**PIAWAIAN KLASIFIKASI INDUSTRI MALAYSIA (MSIC) 2008 Ver. 1.0**  
 MALAYSIA STANDARD INDUSTRIAL CLASSIFICATION (MSIC) 2008 Ver.1.0

**PERKHIDMATAN MAKLUMAT DAN KOMUNIKASI**  
 INFORMATION AND COMMUNICATION SERVICES

MSIC 2008	Keterangan <i>Description</i>
<b>58</b>	<b>Aktiviti penerbitan</b> <i>Publishing activities</i>
<b>58110</b>	<b>Penerbitan buku, brosur dan penerbitan lain</b> <i>Publishing of books, brochures and other publications</i>
<b>58120</b>	<b>Penerbitan senarai mel, buku telefon dan direktori lain</b> <i>Publishing of mailing lists, telephone book, other directories</i>
<b>58130</b>	<b>Penerbitan surat khabar, jurnal, majalah dan penerbitan berkala dalam bentuk cetakan atau elektronik</b> <i>Publishing of newspapers, journals, magazines and periodicals in print or electronic form</i>
<b>58190</b>	<b>Penerbitan katalog, gambar, turisan dan poskad, kad ucapan, borang, poster, penerbitan semula kerja-kerja seni, bahan pengiklanan dan bahan bercetak lain t.t.t.l.</b> <i>Publishing of catalogues, photos, engraving and postcards, greeting cards, forms, posters, reproduction of works of art, advertising material and other printed matter n.e.c.</i>
<b>58201</b>	<b>Aplikasi perniagaan dan aplikasi lain</b> <i>Business and other applications</i>
<b>58202</b>	<b>Permainan komputer untuk semua platform</b> <i>Computer games for all platforms</i>
<b>58203</b>	<b>Sistem operasi</b> <i>Operating systems</i>
<b>59</b>	<b>Aktiviti penerbitan wayang gambar, video dan program televisyen, rakaman bunyi dan penerbitan muzik</b> <i>Motion picture video and television programme production, sound recording and music publishing activities</i>
<b>59110</b>	<b>Aktiviti pengeluaran wayang gambar, video dan program televisyen</b> <i>Motion picture, video and television programme production activities</i>
<b>59120</b>	<b>Aktiviti pasca produksi wayang gambar, video dan program televisyen</b> <i>Motion picture, video and television programme post-production activities</i>
<b>59130</b>	<b>Aktiviti pengedaran wayang gambar, video dan program televisyen</b> <i>Motion picture, video and television programme distribution activities</i>
<b>59140</b>	<b>Aktiviti penayangan wayang gambar</b> <i>Motion picture projection activities</i>
<b>59200</b>	<b>Aktiviti rakaman bunyi dan penerbitan muzik</b> <i>Sound recording and music publishing activities</i>
<b>60</b>	<b>Aktiviti pemrograman dan penyiaran</b> <i>Programming and broadcasting activities</i>
<b>60100</b>	<b>Penyiaran radio</b> <i>Radio broadcasting</i>
<b>60200</b>	<b>Aktiviti pemrograman dan penyiaran televisyen</b> <i>Television programming &amp; broadcasting activities</i>
<b>61</b>	<b>Perkhidmatan telekomunikasi</b> <i>Telecommunications services</i>
<b>61101</b>	<b>Perkhidmatan telekomunikasi berwayar</b> <i>Wired telecommunications services</i>
<b>61102</b>	<b>Pembekal akses internet oleh operator infrastruktur berwayar</b> <i>Internet access providers by the operator of the wired infrastructure</i>



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**PERKHIDMATAN MAKLUMAT DAN KOMUNIKASI**  
 INFORMATION AND COMMUNICATION SERVICES

MSIC 2008	Keterangan <i>Description</i>
61902	<b>Penyediaan perkhidmatan telekomunikasi melalui sambungan telekom sedia ada</b> <i>Provision of telecommunications services over existing telecom connection</i>
61903	<b>Penjualan semula telekomunikasi</b> <i>Telecommunications resellers</i>
61904	<b>Penyediaan perkhidmatan telekomunikasi melalui sambungan telekom VOIP (Voice Over Internet Protocol) sedia ada</b> <i>Provision of telecommunications services over existing telecom connections VOIP (Voice Over Internet Protocol) provision</i>
61905	<b>Penyediaan aplikasi telekomunikasi yang khusus</b> <i>Provision of specialized telecommunications applications</i>
61909	<b>Aktiviti telekomunikasi lain t.t.t.l.</b> <i>Other telecommunications activities n.e.c.</i>
<b>62</b>	<b>Aktiviti pengaturcaraan komputer, perundingan dan aktiviti yang berkaitan</b> <i>Computer programming, consultancy and related activities.</i>
62010	<b>Aktiviti pengaturcaraan komputer</b> <i>Computer programming activities</i>
62021	<b>Perundingan komputer</b> <i>Computer consultancy</i>
62022	<b>Aktiviti pengurusan kemudahan komputer</b> <i>Computer facilities management activities</i>
62091	<b>Sistem keselamatan teknologi maklumat dan komunikasi (ICT)</b> <i>Information communication technology (ICT) system security</i>
62099	<b>Aktiviti perkhidmatan teknologi maklumat t.t.t.l</b> <i>Other information technology service activities n.e.c</i>
<b>63</b>	<b>Aktiviti perkhidmatan maklumat</b> <i>Information services activities</i>
63111	<b>Aktiviti penyediaan infrastruktur untuk <i>hosting</i>, perkhidmatan prosesan data dan aktiviti yang berkaitan</b> <i>Activities of providing infrastructure for hosting, data processing services and related activities</i>
63112	<b>Aktiviti prosesan data</b> <i>Data processing activities</i>
63120	<b>Web portal</b> <i>Web portals</i>
63910	<b>Aktiviti agensi dan sindiket berita</b> <i>News syndicate and news agency activities</i>
63990	<b>Aktiviti perkhidmatan maklumat lain t.t.t.l</b> <i>Other information service activities n.e.c.</i>

ISBN 978-967-253-716-8



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