



KEMENTERIAN EKONOMI
JABATAN PERANGKAAN MALAYSIA

AKAUN NEGARA *NATIONAL ACCOUNTS*

2023

AKAUN SATELIT TEKNOLOGI MAKLUMAT DAN KOMUNIKASI

*INFORMATION AND COMMUNICATION
TECHNOLOGY SATELLITE ACCOUNT*



JABATAN PERANGKAAN MALAYSIA
DEPARTMENT OF STATISTICS MALAYSIA



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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>.

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 catalogue data and visualisations to facilitate users' analysis and can be accessed through <https://open.dosm.gov.my>.

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

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“Sumber: Jabatan Perangkaan Malaysia”

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KATA PENGANTAR



Akaun Satelit Teknologi Maklumat dan Komunikasi 2023 adalah satu kerangka statistik untuk mengukur perkembangan industri Teknologi Maklumat dan Komunikasi termasuk e-dagang dan sumbangannya kepada Keluaran Dalam Negeri Kasar. Penyusunan statistik ini dilaksanakan berdasarkan rangka kerja *System of National Accounts 2008*, *OECD Guide to Measuring the Information Society 2011* dan *OECD Internet Economy Outlook 2012*. Statistik ini disusun secara tahunan dengan mengintegrasikan produk dan industri berkaitan teknologi maklumat dan komunikasi.

Penerbitan ini dibahagikan kepada tiga bahagian utama. Bahagian pertama memaparkan penemuan utama dan ringkasan penemuan, manakala jadual statistik di bahagian kedua. Aspek teknikal berkaitan konsep, definisi, metodologi, sumber data serta kod & klasifikasi yang digunakan dalam penerbitan ini diterangkan di bahagian ketiga bagi memudahkan pengguna memahami statistik yang diterbitkan.

Statistik ini boleh membantu agensi kerajaan, ahli ekonomi, ahli akademik serta individu bagi tujuan membuat perancangan dan penggubalan dasar, analisis ekonomi dan unjuran serta dapat membantu merancang pembangunan perniagaan terutamanya dalam industri teknologi maklumat dan komunikasi.

Jabatan Perangkaan Malaysia (DOSM) merakamkan penghargaan atas kerjasama semua pihak dalam membekalkan data yang diperlukan dan menyumbang kepada kejayaan penerbitan ini. Sebarang maklum balas dan cadangan untuk penambahbaikan penerbitan ini pada masa akan datang amatlah dihargai.

DATO' SRI DR. MOHD UZIR MAHIDIN

Ketua Perangkawan Malaysia

Oktober 2024



PREFACE



Information and Communication Technology Satellite Account 2023 is a statistical framework to gauge the performance of the Information and Communication Technology industry, including e-commerce and its contribution to the Gross Domestic Product. The compilation of these statistics is in accordance with the framework of the System of National Accounts 2008, OECD Guide to Measuring the Information Society 2011 and OECD Internet Economy Outlook 2012. These statistics is compiled annually and integrates products and industries related to information and communication technology.

This publication is divided into three main parts. The first part displays the main findings and summary of findings, while the statistical tables in the second part. Technical aspects related to concepts, definitions, methodology, data sources and code & classification used in this publication are described in the third part to assist users to understand the published statistics.

These statistics could assist government agencies, economists, academicians and individuals for planning and formulation of policies, economic analysis and projections as well as for business development planning especially in information and communication technology.

Department of Statistics Malaysia (DOSM) acknowledges the cooperation of all parties that have provided the required data and contributed to the success of this publication. Any feedback and suggestions towards improving the future publication are highly appreciated.

DATO' SRI DR. MOHD UZIR MAHIDIN

Chief Statistician Malaysia

October 2024



SINGKATAN / ABBREVIATIONS



ASTMK	: Akaun Satelit Teknologi Maklumat dan Komunikasi
b	: bilion / <i>billion</i>
BPM6	: <i>Balance of Payments and International Investment Position Manual Sixth Edition</i>
CPC	: <i>Central Products Classification</i>
DOSM	: Jabatan Perangkaan Malaysia / <i>Department of Statistics, Malaysia</i>
etc	: <i>et cetera / and other things</i>
GDP	: <i>Gross Domestic Product</i>
GVAICT	: <i>Gross Value Added of Information and Communication Technology Industry</i>
i.e.	: <i>Latin expression meaning "that is; in other words"</i>
ICT	: <i>Information and Communication Technology</i>
ICTSA	: <i>Information and Communication Technology Satellite Account</i>
ISIC	: <i>International Standard Industrial Classification of All Economic Activities</i>
j	: juta
HS	: <i>Harmonized Commodity Description and Coding Systems</i>
KDNK	: Keluaran Dalam Negeri Kasar
m	: <i>million</i>
MCPA	: Klasifikasi Produk Mengikut Aktiviti Malaysia / <i>Malaysian Classification of Products by Activity</i>
MSIC	: Piawaian Klasifikasi Industri Malaysia / <i>Malaysia Standard Industrial Classification</i>
n.e.c	: <i>not elsewhere classified</i>
NDKTMK	: Nilai Ditambah Kasar Industri Teknologi Maklumat dan Komunikasi
OECD	: <i>Organisation for Economic Co-operation and Development</i>
RM	: Ringgit Malaysia
SNA	: <i>System of National Accounts</i>
SUT	: Jadual Penawaran dan Penggunaan / <i>Supply and Use Table</i>
t.t.t.l.	: tidak terkelas di tempat lain
TMK	: Teknologi Maklumat dan Komunikasi

Nota / Note

Penjumlahan angka komponen mungkin tidak bersamaan dengan angka jumlah kecil atau jumlah besar disebabkan pembundaran angka.

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

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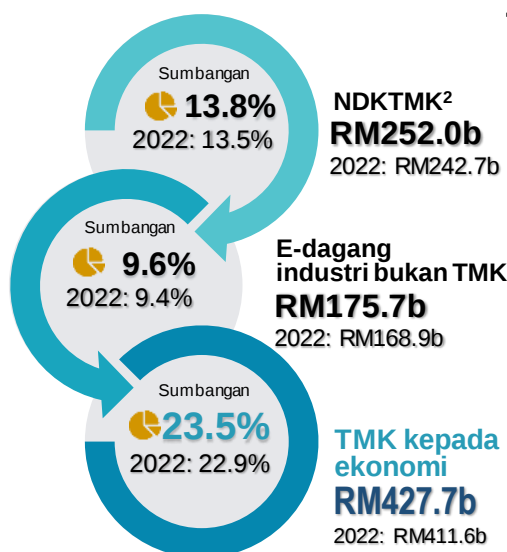
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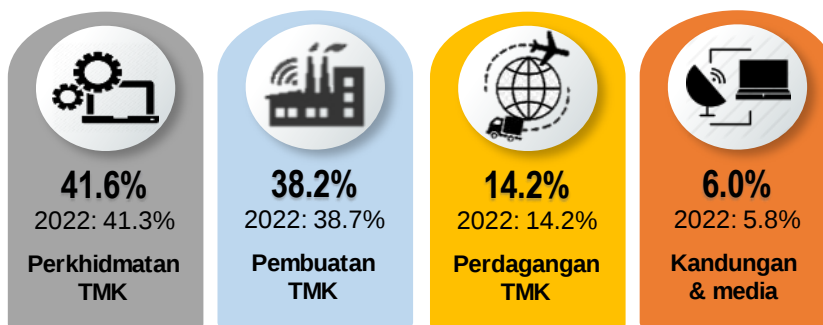
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AKAUN SATELIT TEKNOLOGI MAKLUMAT DAN KOMUNIKASI 2023

Teknologi Maklumat dan Komunikasi (TMK) menyumbang **23.5%** kepada KDNK¹ dengan pertumbuhan **3.9%**



Sumbangan NDKTMK² mengikut industri



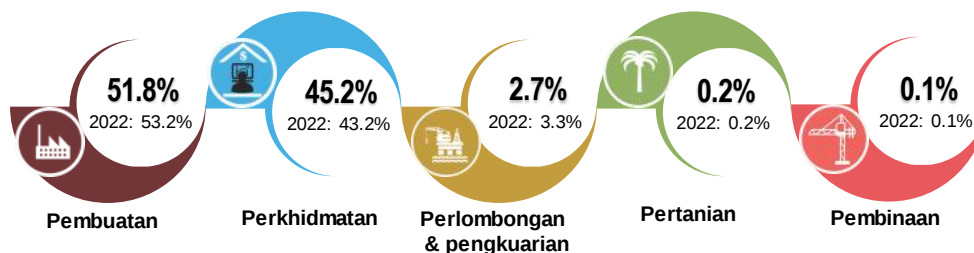
¹ Keluaran Dalam Negeri Kasar
² Nilai Ditambah Kasar TMK

NILAI DITAMBAH KASAR E-DAGANG

E-dagang menyumbang **13.6%** kepada KDNK

RM248.2b
2022: RM239.4b

Sumbangan mengikut industri



EKSPORT & IMPORT PRODUK TMK

EKSPORT

RM430.7b

2022: RM454.2b

RM270.7b

2022: RM313.7b

IMPORT

Sumbangan

90.9%

2022: 91.2%

8.1%

2022: 7.7%

1.0%

2022: 1.1%



Barangan TMK

Perkhidmatan TMK

Kandungan & media

Sumbangan

84.3%

2022: 87.9%

14.1%

2022: 10.7%

1.6%

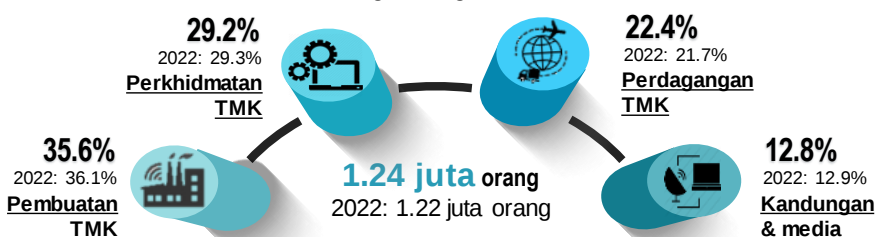
2022: 1.4%

GUNA TENAGA INDUSTRI TMK

7.8% guna tenaga terlibat dalam industri TMK



Sumbangan mengikut industri

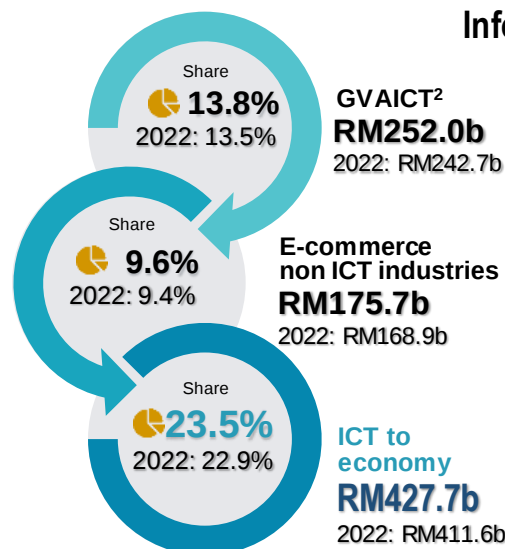


Sumber: Akaun Satelit Teknologi Maklumat dan Komunikasi 2023
Jabatan Perangkaan Malaysia (DOSM)

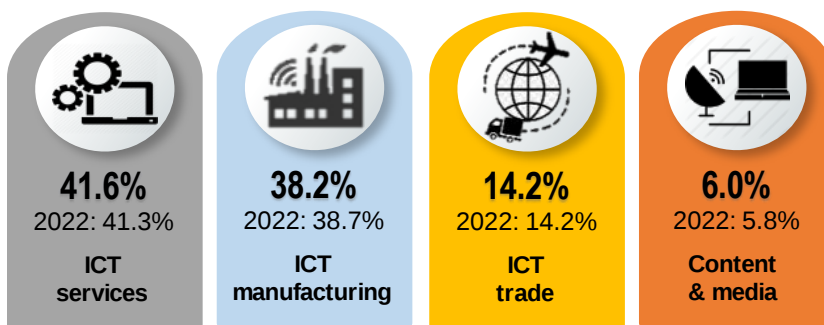


INFORMATION AND COMMUNICATION TECHNOLOGY SATELLITE ACCOUNT 2023

Information and Communication Technology (ICT) contributed **23.5%** to the GDP¹ with a growth of **3.9%**



Share of GVAICT² by industry



¹Gross Domestic Product

²Gross Value Added of ICT Industry

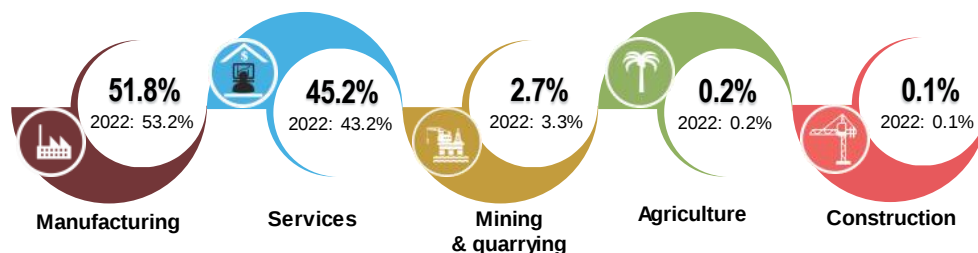
GROSS VALUE ADDED OF E-COMMERCE

E-commerce contributes

13.6% to GDP

RM248.2b
2022: RM239.4b

Share by industry



EXPORTS & IMPORTS OF ICT PRODUCTS

EXPORTS

Share
90.9%
2022: 91.2%

8.1%
2022: 7.7%

1.0%
2022: 1.1%

RM430.7b
2022: RM454.2b

RM270.7b
2022: RM313.7b

IMPORTS

Share
84.3%
2022: 87.9%

14.1%
2022: 10.7%

1.6%
2022: 1.4%

ICT goods

ICT services

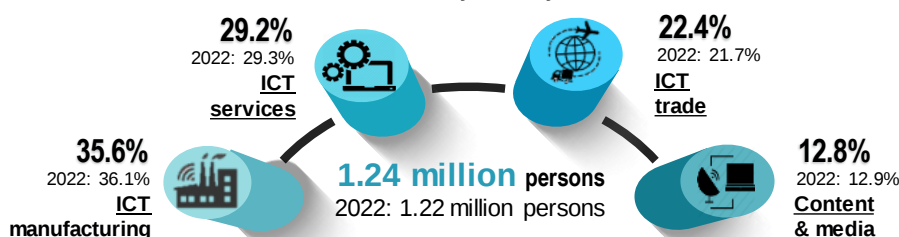
Content & media

EMPLOYMENT OF ICT INDUSTRY

7.8% of employment engaged in the ICT industry



Share by industry



RINGKASAN PENEMUAN 2023



PENGENALAN

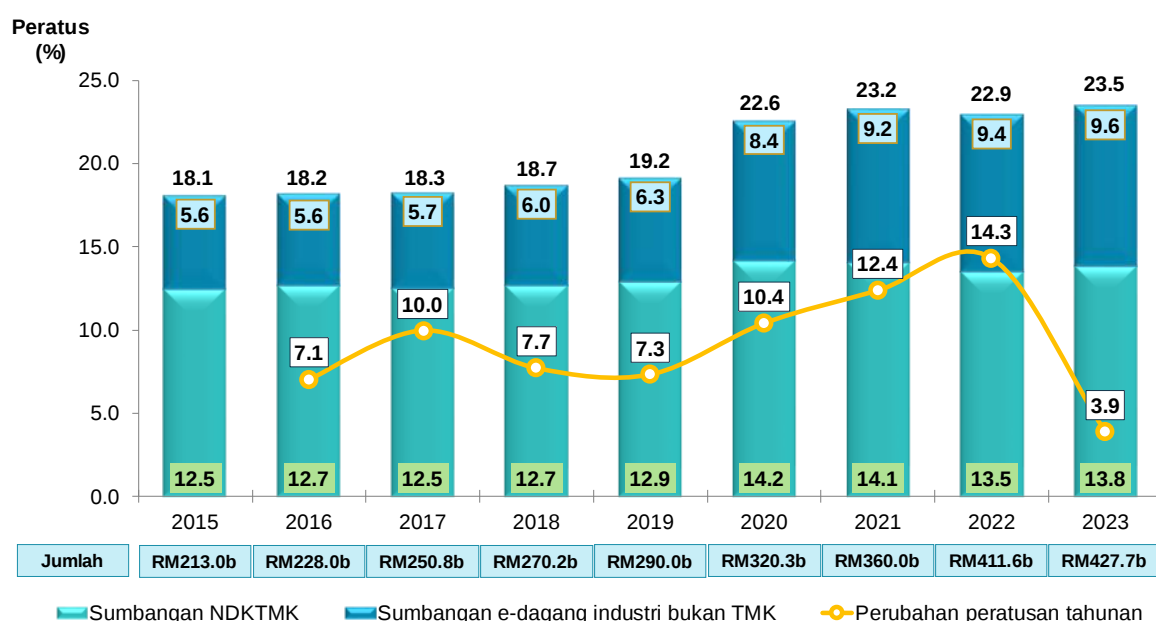
Akaun Satelit Teknologi Maklumat dan Komunikasi (ASTMK) 2023 menyediakan statistik mengenai industri Teknologi Maklumat dan Komunikasi (TMK) dan industri bukan TMK yang mengeluarkan produk TMK, penawaran dan penggunaan produk TMK, eksport & import produk TMK, komponen pendapatan dan guna tenaga dalam industri TMK. Nilai Ditambah Kasar Industri TMK (NDTKTMK) dan e-dagang yang merupakan salah satu komponen ekonomi digital turut disertakan dalam penerbitan ini. Statistik ini dibentangkan mengikut industri dan produk berkaitan TMK pada harga semasa.

SUMBANGAN TMK KEPADA EKONOMI

TMK dan e-dagang menyumbang 23.5 peratus kepada ekonomi Malaysia dengan nilai RM427.7 bilion pada tahun 2023. Prestasi ini disumbangkan oleh NDKTMK sebanyak 13.8 peratus dan e-dagang industri bukan TMK, 9.6 peratus. TMK dan e-dagang mencatatkan pertumbuhan sederhana sebanyak 3.9 peratus berbanding 14.3 peratus pada tahun sebelumnya seperti di **Carta 1**.

Carta 1

Sumbangan TMK kepada ekonomi:
Nilai, perubahan peratusan tahunan dan peratus sumbangan



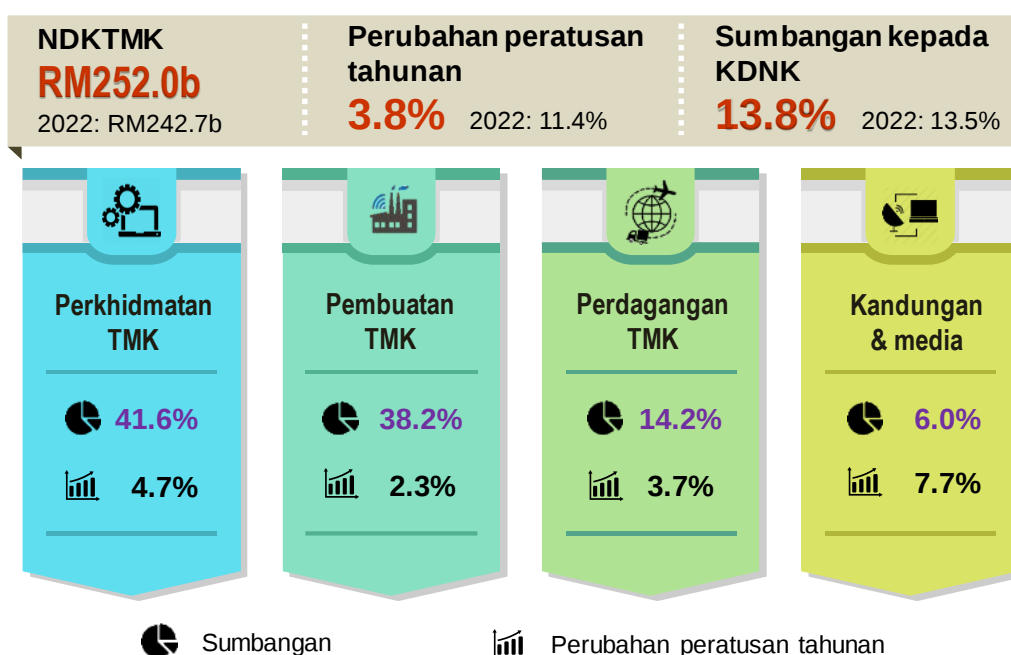
PRESTASI INDUSTRI TMK

NDKTMK merekodkan RM252.0 bilion dengan pertumbuhan 3.8 peratus berbanding 11.4 peratus pada tahun sebelumnya. Industri TMK disokong oleh perkhidmatan TMK dengan sumbangan 41.6 peratus. Ini diikuti oleh pembuatan TMK (38.2%), perdagangan TMK (14.2%) dan kandungan & media (6.0%) seperti yang ditunjukkan dalam **Paparan 1**.

Paparan 1

Nilai Ditambah Kasar Industri TMK:

Nilai, perubahan peratusan tahunan dan peratus sumbangan

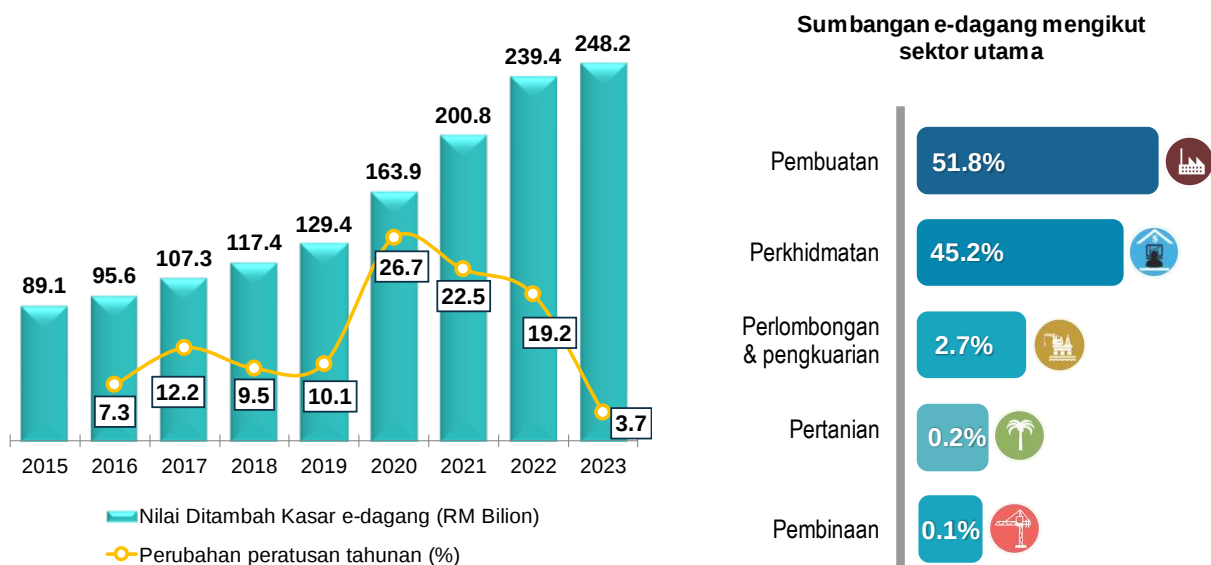


NILAI DITAMBAH KASAR E-DAGANG

Nilai Ditambah Kasar e-dagang merekodkan RM248.2 bilion, bertumbuh perlahan 3.7 peratus pada tahun 2023 berbanding 19.2 peratus pada tahun sebelumnya. Justeru, e-dagang kepada ekonomi menyumbang 13.6 peratus. Sektor Pembuatan kekal sebagai penyumbang utama sebanyak 51.8 peratus dari segi e-dagang mengikut sektor, diikuti oleh sektor Perkhidmatan, 45.2 peratus seperti di **Paparan 2**.

Paparan 2

Nilai Ditambah Kasar e-dagang:
Nilai, perubahan peratusan tahunan dan peratus sumbangan

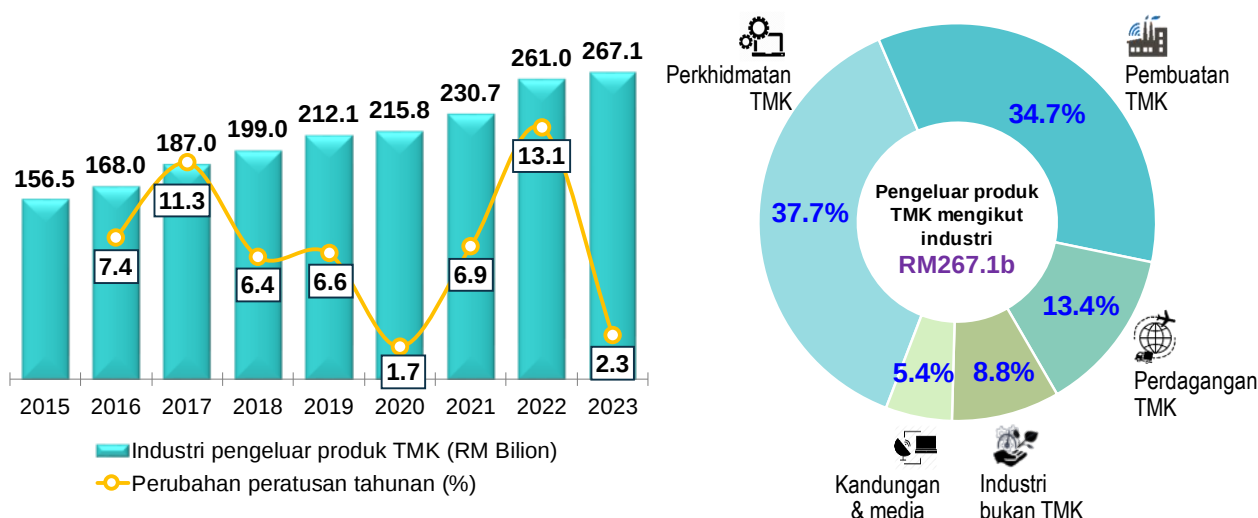


PENGELUARAN PRODUK TMK MENGIKUT INDUSTRI

Pengeluaran produk TMK bertumbuh pada kadar lebih perlahan 2.3 peratus (2022: 13.1%) dengan nilai RM267.1 bilion pada tahun 2023. Pengeluaran produk TMK didominasi oleh perkhidmatan TMK dengan sumbangan 37.7 peratus diikuti oleh pembuatan TMK (34.7%) dan perdagangan TMK (13.4%) seperti di **Carta 2**.

Carta 2

Industri TMK dan industri bukan TMK yang mengeluarkan produk TMK:
Nilai, perubahan peratusan tahunan dan peratus sumbangan

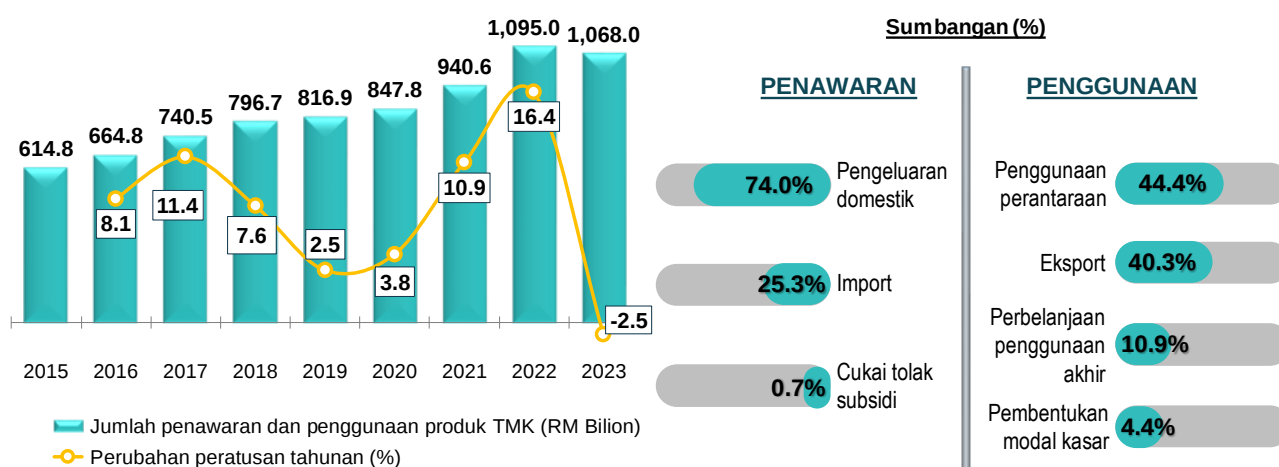


PENAWARAN DAN PENGGUNAAN PRODUK TMK

Penawaran dan penggunaan produk TMK mencatatkan penyusutan 2.5 peratus kepada RM1.07 trilion pada tahun 2023. Pengeluaran domestik mendominasi penawaran produk TMK dengan sumbangan 74.0 peratus diikuti oleh import produk TMK (25.3%). Sementara itu, penggunaan perantaraan produk TMK mencatatkan sumbangan 44.4 peratus dan eksport produk TMK, 40.3 peratus kepada jumlah penggunaan (**Paparan 3**).

Paparan 3

Penawaran dan penggunaan produk TMK:
Nilai, perubahan peratusan tahunan dan peratus sumbangan



EKSPORT DAN IMPORT PRODUK TMK

Eksport produk TMK merekodkan nilai RM430.7 bilion dengan menunjukkan penurunan 5.2 peratus berbanding 27.6 peratus pada tahun 2022. Penurunan ini dipengaruhi oleh eksport barangan TMK yang merekodkan kejatuhan sebanyak 5.5 peratus. Eksport TMK menyumbang 34.5 peratus kepada jumlah eksport Malaysia.

Import produk TMK berjumlah RM270.7 bilion mencatatkan penurunan 13.7 peratus berbanding 20.3 peratus pada tahun sebelumnya. Penurunan ini dipengaruhi oleh penyusutan barangan TMK sebanyak 17.3 peratus. Import TMK menyumbang 23.4 peratus kepada jumlah keseluruhan import pada tahun 2023.

Secara keseluruhan, eksport bersih produk TMK mencatatkan lebih dengan nilai RM160.0 bilion pada tahun 2023 seperti yang digambarkan dalam **Paparan 4**.

Paparan 4

Eksport dan import produk TMK:
Nilai, perubahan peratusan tahunan dan peratus sumbangan

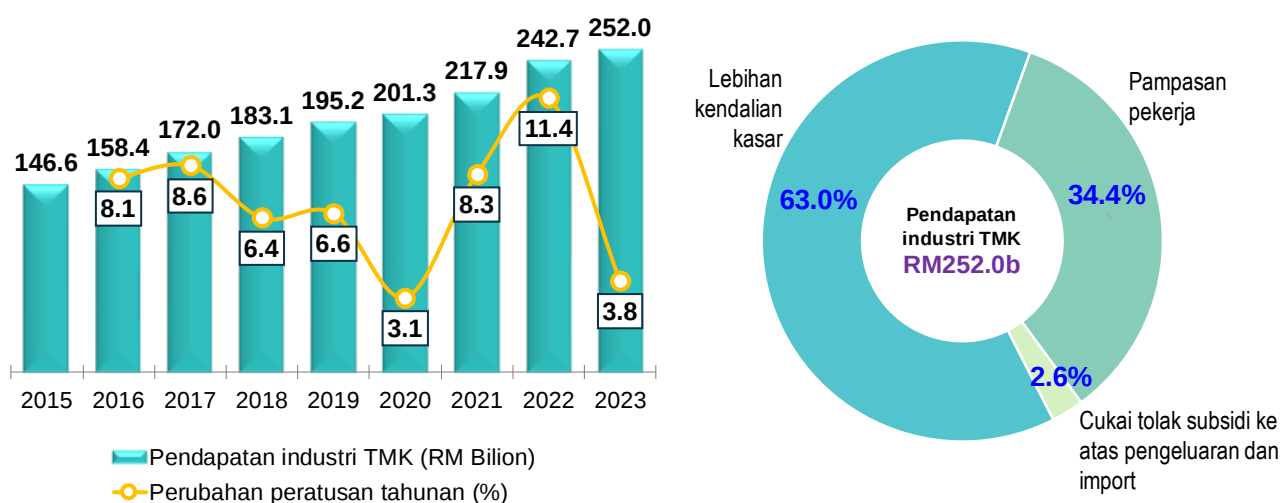
EKSPORT					IMPORT				
PRODUK TMK	RM bilion		Perubahan peratusan tahunan (%)		RM bilion		Perubahan peratusan tahunan (%)		
	2022	2023	2022	2023	2022	2023	2022	2023	
Barangan TMK	414.1	391.3	28.8	-5.5	275.8	228.2	20.6	-17.3	Eksport bersih 2023 RM160.0b
Perkhidmatan TMK	34.9	35.1	21.8	0.5	33.6	38.3	19.3	13.8	
Kandungan & media	5.2	4.3	-10.6	-17.6	4.3	4.3	7.5	0.1	
JUMLAH	454.2	430.7	27.6	-5.2	313.7	270.7	20.3	-13.7	

KOMPONEN PENDAPATAN INDUSTRI TMK

Pendapatan dalam industri TMK bertumbuh sederhana kepada 3.8 peratus (2022: 11.4) mencapai nilai RM252.0 bilion. Pendapatan bagi pampasan pekerja menyumbang 34.4 peratus kepada keseluruhan industri TMK berjumlah RM86.7 bilion pada tahun 2023. Sementara itu, lebihan kendalian kasar menyumbang 63.0 peratus dan cukai tolak subsidi ke atas pengeluaran dan import, 2.6 peratus seperti yang ditunjukkan dalam **Carta 3**.

Carta 3

Komponen pendapatan industri TMK:
Nilai, perubahan peratusan tahunan dan peratus sumbangan



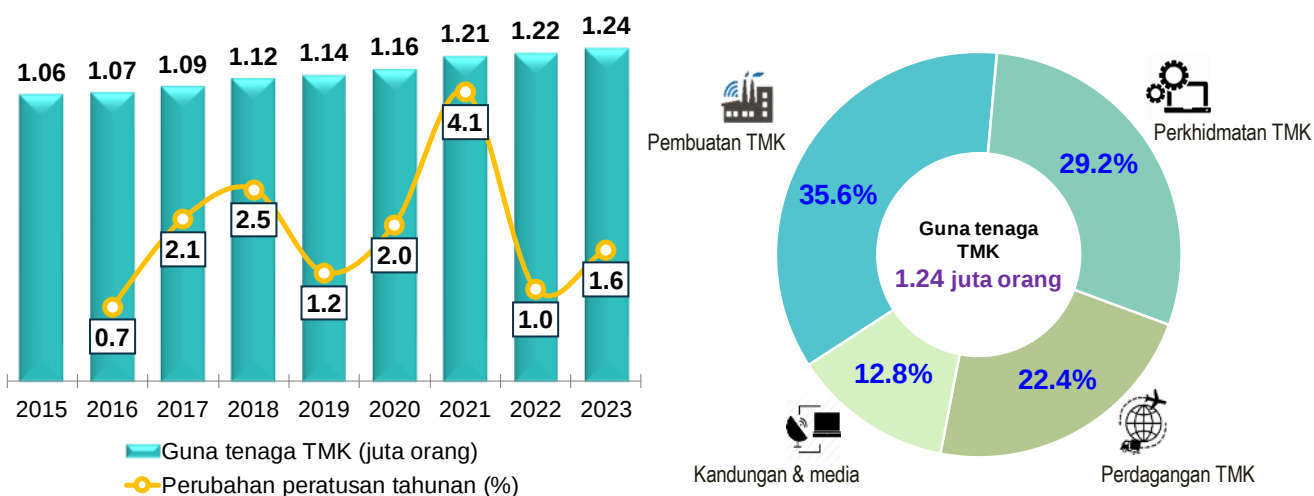
GUNA TENAGA DALAM INDUSTRI TMK

Guna tenaga dalam industri TMK meningkat 1.6 peratus kepada 1.24 juta orang pada tahun 2023 menyumbang 7.8 peratus kepada jumlah guna tenaga di Malaysia. Sumbangan ini didominasi oleh pembuatan TMK sebanyak 35.6 peratus diikuti oleh perkhidmatan TMK, 29.2 peratus dan perdagangan TMK, 22.4 peratus seperti yang dipaparkan dalam **Carta 4**.

Carta 4

Guna tenaga dalam industri TMK:

Nilai, perubahan peratusan tahunan dan peratus sumbangan



SUMMARY OF FINDINGS 2023



INTRODUCTION

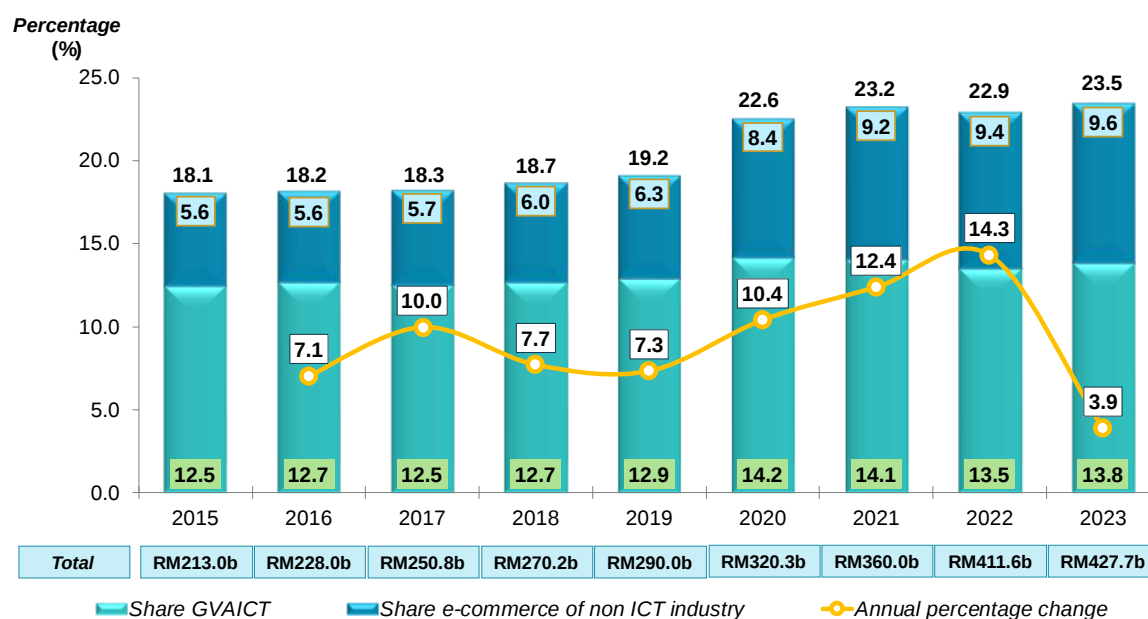
Information and Communication Technology Satellite Account (ICTSA) 2023 provides statistics on Information and Communication Technology (ICT) industry and non ICT industries that produce the ICT products, the supply and use of ICT products, exports & imports of ICT products, income components and employment in the ICT industry. The Gross Value Added of ICT Industry (GVAICT) and e-commerce which is one of the digital economy components also included in this publication. These statistics are presented by ICT related industries and products at current prices.

CONTRIBUTION OF ICT TO THE ECONOMY

ICT and e-commerce contributed 23.5 per cent to Malaysia's economy with a value of RM427.7 billion in 2023. This performance was driven by the GVAICT at 13.8 per cent and e-commerce from non ICT industries, 9.6 per cent. The ICT and e-commerce recorded a moderate growth of 3.9 per cent as compared to 14.3 per cent in the previous year as in **Chart 1**.

Chart 1

ICT contribution to the economy:
Value, annual percentage change and percentage share

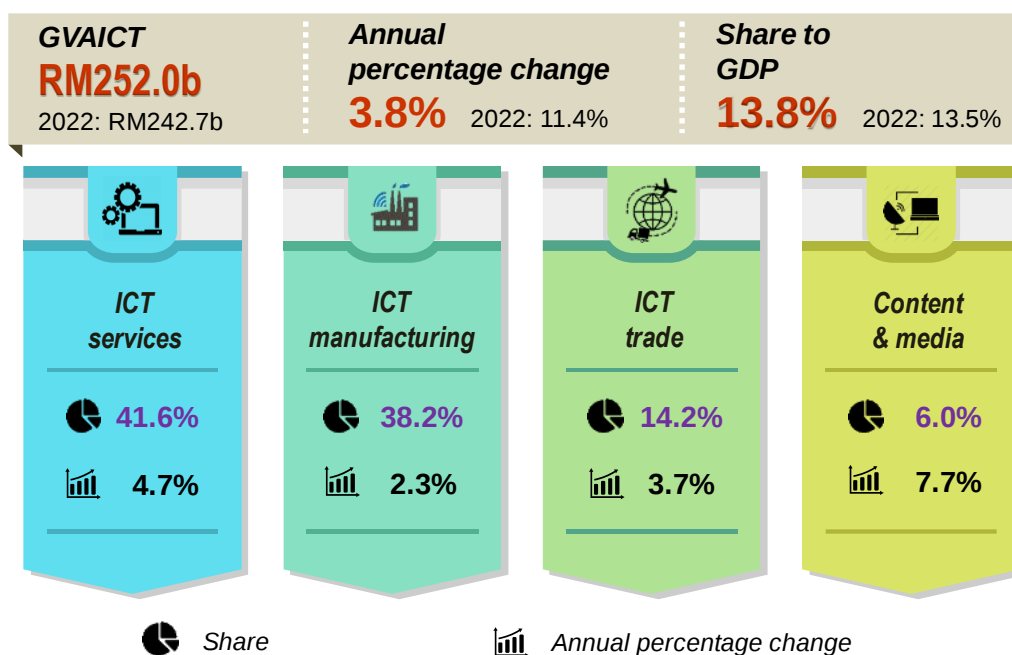


PERFORMANCE OF ICT INDUSTRY

GVAICT recorded RM252.0 billion with a growth of 3.8 per cent as compared to 11.4 per cent in the previous year. The ICT industry was supported by ICT services with a share of 41.6 per cent. This was followed by ICT manufacturing (38.2%), ICT trade (14.2%) and content & media (6.0%) as shown in **Exhibit 1**.

Exhibit 1

Gross Value Added of ICT Industry:
Value, annual percentage change and percentage share

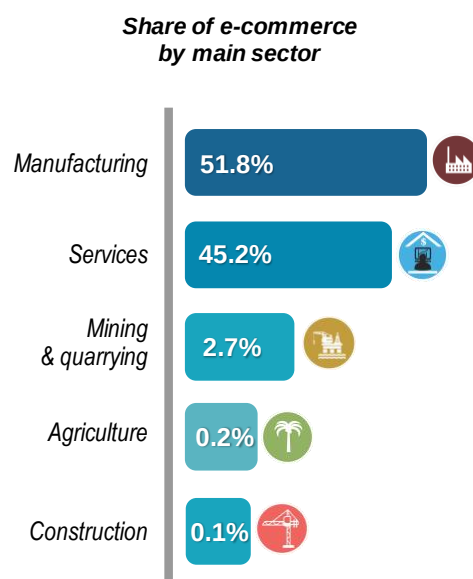
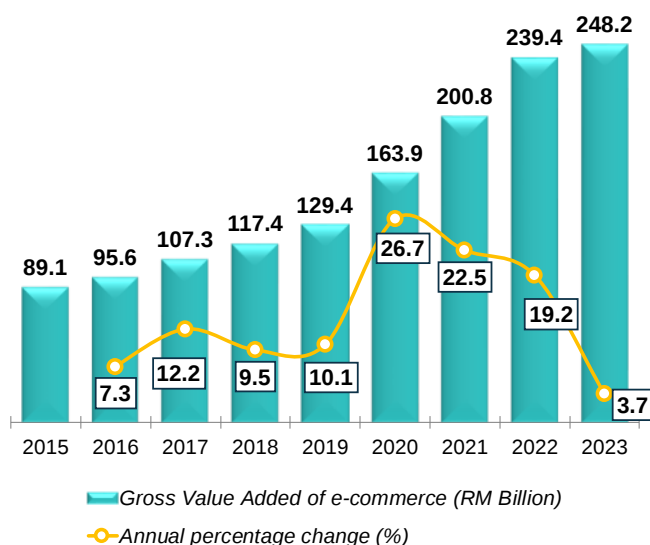


GROSS VALUE ADDED OF E-COMMERCE

The Gross Value Added of e-commerce recorded RM248.2 billion, increase at slower rate of 3.7 per cent in 2023 as compared to 19.2 per cent in the previous year. Hence, e-commerce contributed 13.6 per cent to the economy. Manufacturing sector remained the main contributor with 51.8 per cent in terms of e-commerce by sectors, followed by the Services sector at 45.2 per cent as shown in **Exhibit 2**.

Exhibit 2

Gross Value Added of e-commerce:
Value, annual percentage change and percentage share

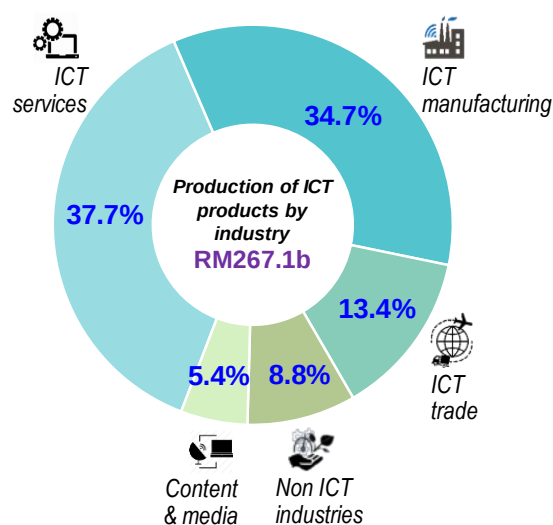
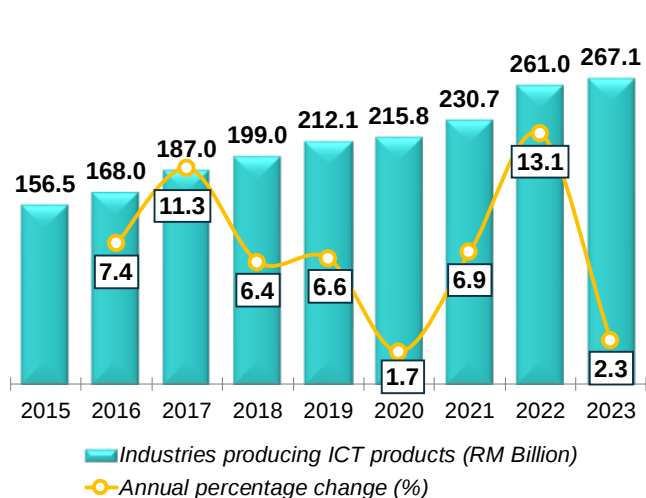


PRODUCTION OF ICT PRODUCTS BY INDUSTRY

The production of ICT products grew at a slower pace of 2.3 per cent (2022: 13.1%) with a value of RM267.1 billion in 2023. The production of ICT products was dominated by ICT services with a share of 37.7 per cent followed by ICT manufacturing (34.7%) and ICT trade (13.4%) as **Chart 2**.

Chart 2

ICT industry and non ICT industries that produce ICT products:
Value, annual percentage change and percentage share

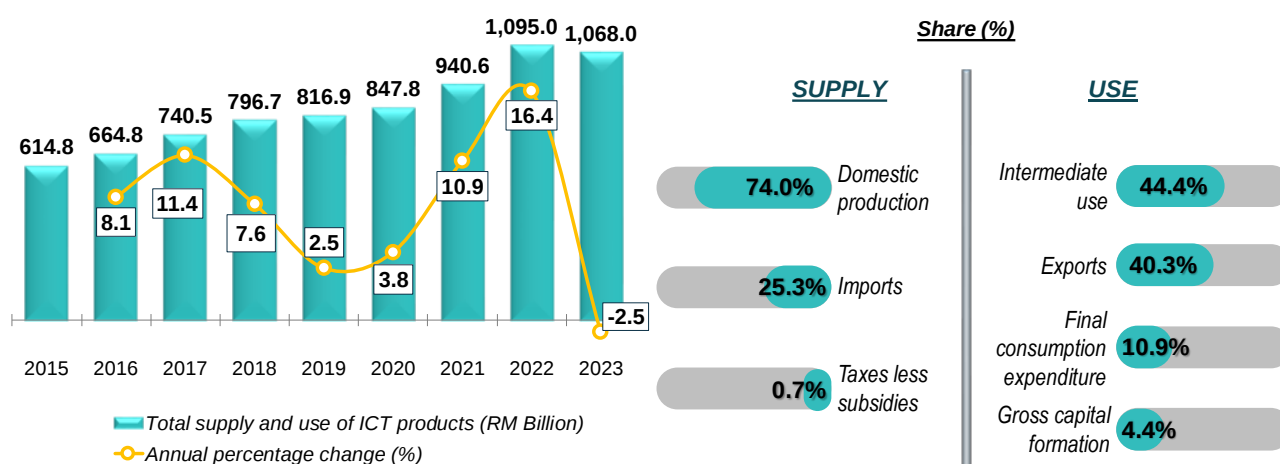


SUPPLY AND USE OF ICT PRODUCTS

The supply and use of ICT products recorded a decline of 2.5 per cent to RM1.07 trillion in 2023. Domestic production dominated the supply of ICT products with a share of 74.0 per cent followed by imports of ICT products (25.3%). Meanwhile, the intermediate use to ICT products accounted for 44.4 per cent and exports of ICT products, 40.3 per cent of the total use (**Exhibit 3**).

Exhibit 3

Supply and use of ICT products:
Value, annual percentage change and percentage share



EXPORTS AND IMPORTS OF ICT PRODUCTS

Exports of ICT products recorded a value of RM430.7 billion showing a decline of 5.2 per cent compared to 27.6 per cent in the 2022. The decline was influenced by the exports of ICT goods which recorded a drop of 5.5 per cent. Exports of ICT products contributed 34.5 per cent of the total Malaysia's exports.

Imports of ICT products amounted to RM270.7 billion reflecting a decrease of 13.7 per cent, compared to 20.3 per cent in the previous year. The decline was influenced by a decrease in ICT goods by 17.3 per cent. Imports of ICT products accounted for 23.4 per cent of the total imports in 2023.

Overall, net exports of ICT products recorded a surplus with a value of RM160.0 billion in 2023 as illustrated in **Exhibit 4**.

Exhibit 4

Exports and imports of ICT products:
Value, annual percentage change and percentage share

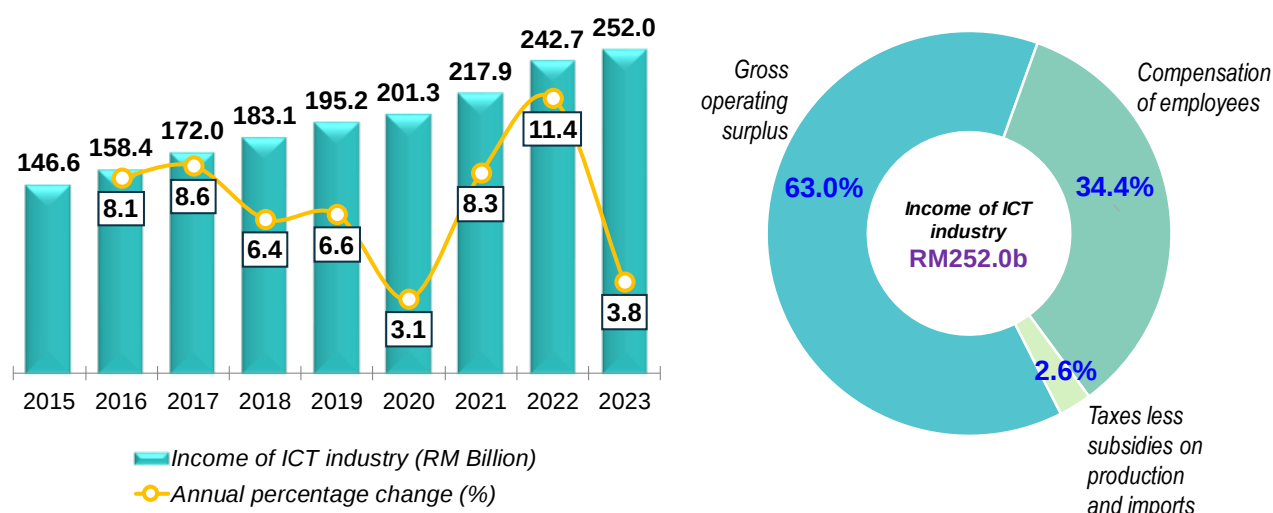
		EXPORTS				IMPORTS				Net Exports 2023 RM160.0b		
ICT PRODUCTS		RM billion		Annual percentage change (%)		RM billion		Annual percentage change (%)				
		2022	2023	2022	2023	2022	2023	2022	2023			
		ICT goods		414.1	391.3	28.8	-5.5	275.8	228.2		20.6	-17.3
		ICT services		34.9	35.1	21.8	0.5	33.6	38.3		19.3	13.8
Content & media		5.2	4.3	-10.6	-17.6	4.3	4.3	7.5	0.1			
TOTAL		454.2	430.7	27.6	-5.2	313.7	270.7	20.3	-13.7			

INCOME COMPONENTS OF ICT INDUSTRY

Income in the ICT industry grew moderated to 3.8 per cent (2022: 11.4%) reaching a value of RM252.0 billion. The compensation of employee contributed 34.4 per cent to the overall ICT industry amounted to RM86.7 billion in 2023. Meanwhile, gross operating surplus contributed 63.0 per cent and taxes less subsidies on production and imports, 2.6 per cent as shown in Chart 3.

Chart 3

Income components of ICT industry:
Value, annual percentage change and percentage share

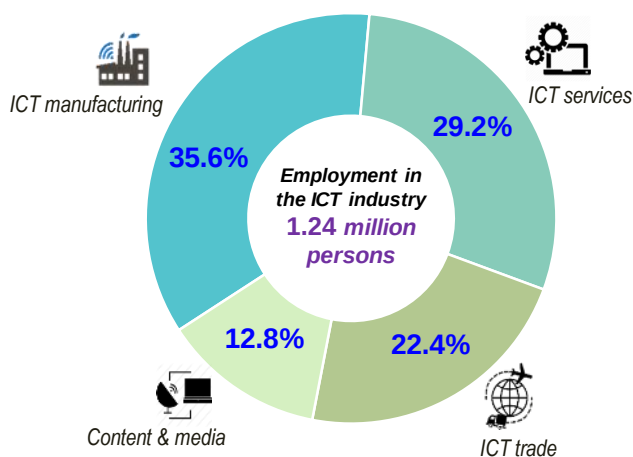
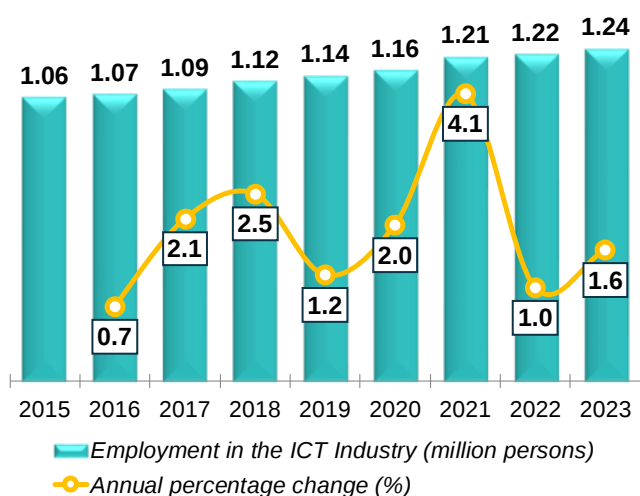


EMPLOYMENT IN THE ICT INDUSTRY

Employment in the ICT industry grew by 1.6 per cent to 1.24 million persons in 2023 which contributed 7.8 per cent to total employment in Malaysia. The contribution was dominated by ICT manufacturing with the share of 35.6 per cent followed by the ICT services at 29.2 per cent and the ICT trade at 22.4 per cent as demonstrated in **Chart 4**.

Chart 4

Employment in the ICT industry:
Value, annual percentage change and percentage share



JADUAL STATISTIK *STATISTICAL TABLES*



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Jadual 1a Industri TMK dan industri bukan TMK yang mengeluarkan produk TMK
Table 1a ICT industry and non ICT industry that produce ICT products

Jenis aktiviti ekonomi Kind of economy activity	2015	2016	2017	2018	2019	2020	2021	2022 ^e	2023 ^p
RM Juta RM Million									
Industri TMK/ ICT industry	141,990	153,507	166,607	177,197	191,093	195,079	211,657	237,862	243,466
1. Pembuatan TMK ICT manufacturing	49,260	53,231	57,263	58,645	62,417	65,767	75,308	92,035	92,588
2. Perdagangan TMK ICT trade	22,430	24,361	26,430	28,189	30,085	28,489	30,418	34,408	35,682
3. Perkhidmatan TMK ICT services	59,535	64,392	70,574	77,427	84,830	88,682	93,962	98,041	100,780
4. Kandungan dan media Content and media	10,765	11,523	12,341	12,936	13,760	12,142	11,969	13,379	14,417
Industri bukan TMK/ Non ICT industry	14,488	14,510	20,421	21,807	21,024	20,681	19,069	23,146	23,589
Jumlah industri yang mengeluarkan produk TMK Total industries that produce ICT products	156,478	168,018	187,027	199,004	212,117	215,760	230,727	261,008	267,055
Perubahan peratusan tahunan (%) Annual percentage change (%)									
Industri TMK/ ICT industry		8.1	8.5	6.4	7.8	2.1	8.5	12.4	2.4
1. Pembuatan TMK ICT manufacturing		8.1	7.6	2.4	6.4	5.4	14.5	22.2	0.6
2. Perdagangan TMK ICT trade		8.6	8.5	6.7	6.7	-5.3	6.8	13.1	3.7
3. Perkhidmatan TMK ICT services		8.2	9.6	9.7	9.6	4.5	6.0	4.3	2.8
4. Kandungan dan media Content and media		7.0	7.1	4.8	6.4	-11.8	-1.4	11.8	7.8
Industri bukan TMK/ Non ICT industry		0.2	40.7	6.8	-3.6	-1.6	-7.8	21.4	1.9
Jumlah industri yang mengeluarkan produk TMK Total industries that produce ICT products		7.4	11.3	6.4	6.6	1.7	6.9	13.1	2.3
Peratus sumbangan jumlah industri yang mengeluarkan produk TMK (%) Percentage share total industries that produce ICT products (%)									
Industri TMK/ ICT industry	90.7	91.4	89.1	89.0	90.1	90.4	91.7	91.1	91.2
1. Pembuatan TMK ICT manufacturing	31.5	31.7	30.6	29.5	29.4	30.5	32.6	35.3	34.7
2. Perdagangan TMK ICT trade	14.3	14.5	14.1	14.2	14.2	13.2	13.2	13.2	13.4
3. Perkhidmatan TMK ICT services	38.0	38.3	37.7	38.9	40.0	41.1	40.7	37.6	37.7
4. Kandungan dan media Content and media	6.9	6.9	6.6	6.5	6.5	5.6	5.2	5.1	5.4
Industri bukan TMK/ Non ICT industry	9.3	8.6	10.9	11.0	9.9	9.6	8.3	8.9	8.8
Jumlah industri yang mengeluarkan produk TMK Total industries that produce ICT products	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Jadual 2A: Penawaran dan penggunaan produk TMK - RM Juta
Table Supply and use of ICT products - RM Million

2015					2016			
RM Juta RM Million								
Penawaran/ Supply								
Komponen Components	Barangan TMK	Perkhidmatan TMK	Produk kandungan dan media	Jumlah	Barangan TMK	Perkhidmatan TMK	Produk kandungan dan media	Jumlah
	ICT goods	ICT services	Content and media products	Total	ICT goods	ICT services	Content and media products	Total
Pengeluaran domestik TMK ICT domestic production	278,948	140,156	25,066	444,169	300,874	157,353	27,800	486,028
Import produk TMK Imports of ICT products	139,893	19,651	4,720	164,264	147,360	20,059	4,722	172,141
Cukai tolak subsidi ke atas produk TMK Taxes less subsidies on ICT products	1,733	3,221	1,413	6,366	1,736	3,414	1,453	6,604
Jumlah penawaran produk TMK Total supply of ICT products	420,574	163,027	31,199	614,800	449,971	180,826	33,975	664,772

Penggunaan/ Use								
Komponen Components	Barangan TMK	Perkhidmatan TMK	Produk kandungan dan media	Jumlah	Barangan TMK	Perkhidmatan TMK	Produk kandungan dan media	Jumlah
	ICT goods	ICT services	Content and media products	Total	ICT goods	ICT services	Content and media products	Total
Penggunaan perantaraan produk TMK <i>Intermediate use on ICT products</i>	200,382	81,779	15,351	297,513	223,575	92,944	17,468	333,987
Perbelanjaan penggunaan akhir produk TMK <i>Final consumption expenditure on ICT products</i>	16,537	45,805	8,742	71,084	18,023	50,125	9,332	77,480
Pembentukan modal kasar produk TMK <i>Gross capital formation on ICT products</i>	17,689	15,438	381	33,508	19,460	16,813	386	36,659
Eksport produk TMK <i>Exports of ICT products</i>	185,965	20,005	6,725	212,695	188,913	20,944	6,789	216,647
Jumlah penggunaan produk TMK <i>Total use of ICT products</i>	420,574	163,027	31,199	614,800	449,971	180,826	33,975	664,772

Jadual 2A: Penawaran dan penggunaan produk TMK - RM Juta (Samb.)
Table 2A: Supply and use of ICT products - RM Million (Cont.)

2017					2018			
RM Juta RM Million								
Penawaran/ Supply								
Komponen Components	Barangan TMK	Perkhidmatan TMK	Produk kandungan dan media	Jumlah	Barangan TMK	Perkhidmatan TMK	Produk kandungan dan media	Jumlah
	ICT goods	ICT services	Content and media products	Total	ICT goods	ICT services	Content and media products	Total
Pengeluaran domestik TMK ICT domestic production	319,666	173,963	31,887	525,516	349,056	192,503	36,330	577,888
Import produk TMK Imports of ICT products	184,867	19,452	4,688	209,008	190,852	19,511	4,601	214,964
Cukai tolak subsidi ke atas produk TMK Taxes less subsidies on ICT products	1,821	2,872	1,327	6,020	1,572	1,508	761	3,841
Jumlah penawaran produk TMK Total supply of ICT products	506,354	196,287	37,902	740,544	541,480	213,521	41,692	796,693

Penggunaan/ Use								
Komponen Components	Barangan TMK	Perkhidmatan TMK	Produk kandungan dan media	Jumlah	Barangan TMK	Perkhidmatan TMK	Produk kandungan dan media	Jumlah
	ICT goods	ICT services	Content and media products	Total	ICT goods	ICT services	Content and media products	Total
Penggunaan perantaraan produk TMK <i>Intermediate use on ICT products</i>	230,812	100,887	20,528	352,227	231,360	110,274	28,000	369,634
Perbelanjaan penggunaan akhir produk TMK <i>Final consumption expenditure on ICT products</i>	18,369	56,004	10,016	84,389	19,544	61,468	6,334	87,346
Pembentukan modal kasar produk TMK <i>Gross capital formation on ICT products</i>	20,223	17,967	505	38,694	16,660	19,655	493	36,808
Eksport produk TMK <i>Exports of ICT products</i>	236,950	21,429	6,854	265,234	273,915	22,125	6,866	302,905
Jumlah penggunaan produk TMK <i>Total use of ICT products</i>	506,354	196,287	37,902	740,544	541,480	213,521	41,692	796,693

Jadual 2A: Penawaran dan penggunaan produk TMK - RM Juta (Samb.)
Table 2A: Supply and use of ICT products - RM Million (Cont.)

2019					2020			
RM Juta RM Million								
Penawaran/ Supply								
Komponen Components	Barangan TMK	Perkhidmatan TMK	Produk kandungan dan media	Jumlah	Barangan TMK	Perkhidmatan TMK	Produk kandungan dan media	Jumlah
	ICT goods	ICT services	Content and media products	Total	ICT goods	ICT services	Content and media products	Total
Pengeluaran domestik TMK ICT domestic production	359,244	207,360	39,543	606,147	376,521	214,721	36,303	627,546
Import produk TMK Imports of ICT products	179,989	20,000	4,619	204,608	189,077	22,671	4,041	215,790
Cukai tolak subsidi ke atas produk TMK Taxes less subsidies on ICT products	2,220	2,925	1,006	6,152	1,285	2,651	560	4,495
Jumlah penawaran produk TMK Total supply of ICT products	541,453	230,286	45,169	816,907	566,883	240,043	40,904	847,831

Penggunaan/ Use								
Komponen Components	Barangan TMK	Perkhidmatan TMK	Produk kandungan dan media	Jumlah	Barangan TMK	Perkhidmatan TMK	Produk kandungan dan media	Jumlah
	ICT goods	ICT services	Content and media products	Total	ICT goods	ICT services	Content and media products	Total
Penggunaan perantaraan produk TMK <i>Intermediate use on ICT products</i>	242,564	120,075	30,543	393,182	244,337	124,321	27,848	396,505
Perbelanjaan penggunaan akhir produk TMK <i>Final consumption expenditure on ICT products</i>	22,278	66,804	7,255	96,336	23,519	69,901	5,905	99,325
Pembentukan modal kasar produk TMK <i>Gross capital formation on ICT products</i>	10,933	19,900	422	31,255	16,453	20,298	479	37,230
Eksport produk TMK <i>Exports of ICT products</i>	265,677	23,507	6,949	296,133	282,575	25,524	6,672	314,771
Jumlah penggunaan produk TMK <i>Total use of ICT products</i>	541,453	230,286	45,169	816,907	566,883	240,043	40,904	847,831

Jadual 2A: Penawaran dan penggunaan produk TMK - RM Juta (Samb.)
Table 2A: Supply and use of ICT products - RM Million (Cont.)

2021					2022 ^e			
RM Juta RM Million								
Penawaran/ Supply								
Komponen Components	Barangan TMK	Perkhidmatan TMK	Produk kandungan dan media	Jumlah	Barangan TMK	Perkhidmatan TMK	Produk kandungan dan media	Jumlah
	ICT goods	ICT services	Content and media products	Total	ICT goods	ICT services	Content and media products	Total
Pengeluaran domestik TMK ICT domestic production	414,237	226,782	32,150	673,169	495,733	243,662	35,022	774,417
Import produk TMK Imports of ICT products	228,610	28,187	3,979	260,776	275,804	33,634	4,279	313,717
Cukai tolak subsidi ke atas produk TMK Taxes less subsidies on ICT products	618	3,866	2,145	6,630	619	3,882	2,387	6,888
Jumlah penawaran produk TMK Total supply of ICT products	643,465	258,834	38,274	940,574	772,156	281,179	41,688	1,095,023

Penggunaan/ Use								
Komponen Components	Barangan TMK	Perkhidmatan TMK	Produk kandungan dan media	Jumlah	Barangan TMK	Perkhidmatan TMK	Produk kandungan dan media	Jumlah
	ICT goods	ICT services	Content and media products	Total	ICT goods	ICT services	Content and media products	Total
Penggunaan perantaraan produk TMK <i>Intermediate use on ICT products</i>	278,290	132,606	27,040	437,935	315,431	143,779	27,859	487,069
Perbelanjaan penggunaan akhir produk TMK <i>Final consumption expenditure on ICT products</i>	25,751	75,656	4,883	106,290	24,780	78,285	8,015	111,080
Pembentukan modal kasar produk TMK <i>Gross capital formation on ICT products</i>	17,936	21,917	505	40,357	17,889	24,214	589	42,692
Eksport produk TMK <i>Exports of ICT products</i>	321,489	28,656	5,846	355,992	414,056	34,901	5,225	454,182
Jumlah penggunaan produk TMK <i>Total use of ICT products</i>	643,465	258,834	38,274	940,574	772,156	281,179	41,688	1,095,023

Jadual 2A: Penawaran dan penggunaan produk TMK - RM Juta (Samb.)
Table Supply and use of ICT products - RM Million (Cont.)

2023 ^p				
RM Juta RM Million				
Penawaran/ Supply				
Komponen Components	Barangan TMK ICT goods	Perkhidmatan TMK ICT services	Produk kandungan dan media Content and media products	Jumlah Total
Pengeluaran domestik TMK <i>ICT domestic production</i>	504,377	248,361	37,366	790,104
Import produk TMK <i>Imports of ICT products</i>	228,171	38,266	4,283	270,720
Cukai tolak subsidi ke atas produk TMK <i>Taxes less subsidies on ICT products</i>	672	3,998	2,525	7,196
Jumlah penawaran produk TMK <i>Total supply of ICT products</i>	733,219	290,625	44,175	1,068,019
Penggunaan/ Use				
Komponen Components	Barangan TMK ICT goods	Perkhidmatan TMK ICT services	Produk kandungan dan media Content and media products	Jumlah Total
Penggunaan perantaraan produk TMK <i>Intermediate use on ICT products</i>	294,308	148,659	30,965	473,933
Perbelanjaan penggunaan akhir produk TMK <i>Final consumption expenditure on ICT products</i>	26,608	81,624	8,266	116,497
Pembentukan modal kasar produk TMK <i>Gross capital formation on ICT products</i>	21,004	25,260	636	46,900
Eksport produk TMK <i>Exports of ICT products</i>	391,300	35,082	4,307	430,689
Jumlah penggunaan produk TMK <i>Total use of ICT products</i>	733,219	290,625	44,175	1,068,019

Jadual 2B: Penawaran dan penggunaan produk TMK - Perubahan peratusan tahunan
Table 2B: Supply and use of ICT products - Annual percentage change

2016					2017			
Perubahan peratusan tahunan (%) Annual percentage change (%)								
Penawaran/ Supply								
Komponen Components	Barangan TMK	Perkhidmatan TMK	Produk kandungan dan media	Jumlah	Barangan TMK	Perkhidmatan TMK	Produk kandungan dan media	Jumlah
	ICT goods	ICT services	Content and media products	Total	ICT goods	ICT services	Content and media products	Total
Pengeluaran domestik TMK ICT domestic production	7.9	12.3	10.9	9.4	6.2	10.6	14.7	8.1
Import produk TMK Imports of ICT products	5.3	2.1	0.0	4.8	25.5	-3.0	-0.7	21.4
Cukai tolak subsidi ke atas produk TMK Taxes less subsidies on ICT products	0.2	6.0	2.8	3.7	4.9	-15.9	-8.7	-8.8
Jumlah penawaran produk TMK Total supply of ICT products	7.0	10.9	8.9	8.1	12.5	8.6	11.6	11.4
Penggunaan/ Use								
Komponen Components	Barangan TMK	Perkhidmatan TMK	Produk kandungan dan media	Jumlah	Barangan TMK	Perkhidmatan TMK	Produk kandungan dan media	Jumlah
	ICT goods	ICT services	Content and media products	Total	ICT goods	ICT services	Content and media products	Total
Penggunaan perantaraan produk TMK Intermediate use on ICT products	11.6	13.7	13.8	12.3	3.2	8.5	17.5	5.5
Perbelanjaan penggunaan akhir produk TMK Final consumption expenditure on ICT products	9.0	9.4	6.8	9.0	1.9	11.7	7.3	8.9
Pembentukan modal kasar produk TMK Gross capital formation on ICT products	10.0	8.9	1.3	9.4	3.9	6.9	30.8	5.6
Eksport produk TMK Exports of ICT products	1.6	4.7	1.0	1.9	25.4	2.3	0.9	22.4
Jumlah penggunaan produk TMK Total use of ICT products	7.0	10.9	8.9	8.1	12.5	8.6	11.6	11.4

Jadual 2B: Penawaran dan penggunaan produk TMK - Perubahan peratusan tahunan (Samb.)
Table 2B: Supply and use of ICT products - Annual percentage change (Cont.)

2018					2019			
Perubahan peratusan tahunan (%) Annual percentage change (%)								
Penawaran/ Supply								
Komponen Components	Barangan TMK	Perkhidmatan TMK	Produk kandungan dan media	Jumlah	Barangan TMK	Perkhidmatan TMK	Produk kandungan dan media	Jumlah
	ICT goods	ICT services	Content and media products	Total	ICT goods	ICT services	Content and media products	Total
Pengeluaran domestik TMK ICT domestic production	9.2	10.7	13.9	10.0	2.9	7.7	8.8	4.9
Import produk TMK Imports of ICT products	3.2	0.3	-1.9	2.9	-5.7	2.5	0.4	-4.8
Cukai tolak subsidi ke atas produk TMK Taxes less subsidies on ICT products	-13.7	-47.5	-42.6	-36.2	41.2	93.9	32.2	60.1
Jumlah penawaran produk TMK Total supply of ICT products	6.9	8.8	10.0	7.6	0.0	7.9	8.3	2.5
Penggunaan/ Use								
Komponen Components	Barangan TMK	Perkhidmatan TMK	Produk kandungan dan media	Jumlah	Barangan TMK	Perkhidmatan TMK	Produk kandungan dan media	Jumlah
	ICT goods	ICT services	Content and media products	Total	ICT goods	ICT services	Content and media products	Total
Penggunaan perantaraan produk TMK Intermediate use on ICT products	0.2	9.3	36.4	4.9	4.8	8.9	9.1	6.4
Perbelanjaan penggunaan akhir produk TMK Final consumption expenditure on ICT products	6.4	9.8	-36.8	3.5	14.0	8.7	14.5	10.3
Pembentukan modal kasar produk TMK Gross capital formation on ICT products	-17.6	9.4	-2.3	-4.9	-34.4	1.2	-14.4	-15.1
Eksport produk TMK Exports of ICT products	15.6	3.2	0.2	14.2	-3.0	6.2	1.2	-2.2
Jumlah penggunaan produk TMK Total use of ICT products	6.9	8.8	10.0	7.6	0.0	7.9	8.3	2.5

Jadual 2B: Penawaran dan penggunaan produk TMK - Perubahan peratusan tahunan (Samb.)
Table 2B: Supply and use of ICT products - Annual percentage change (Cont.)

2020					2021			
Perubahan peratusan tahunan (%) Annual percentage change (%)								
Penawaran/ Supply								
Komponen Components	Barangan TMK	Perkhidmatan TMK	Produk kandungan dan media	Jumlah	Barangan TMK	Perkhidmatan TMK	Produk kandungan dan media	Jumlah
	ICT goods	ICT services	Content and media products	Total	ICT goods	ICT services	Content and media products	Total
Pengeluaran domestik TMK ICT domestic production	4.8	3.5	-8.2	3.5	10.0	5.6	-11.4	7.3
Import produk TMK Imports of ICT products	5.1	13.4	-12.5	5.5	20.9	24.3	-1.5	20.8
Cukai tolak subsidi ke atas produk TMK Taxes less subsidies on ICT products	-42.1	-9.4	-44.4	-26.9	-51.9	45.9	283.2	47.5
Jumlah penawaran produk TMK Total supply of ICT products	4.7	4.2	-9.4	3.8	13.5	7.8	-6.4	10.9
Penggunaan/ Use								
Komponen Components	Barangan TMK	Perkhidmatan TMK	Produk kandungan dan media	Jumlah	Barangan TMK	Perkhidmatan TMK	Produk kandungan dan media	Jumlah
	ICT goods	ICT services	Content and media products	Total	ICT goods	ICT services	Content and media products	Total
Penggunaan perantaraan produk TMK Intermediate use on ICT products	0.7	3.5	-8.8	0.8	13.9	6.7	-2.9	10.4
Perbelanjaan penggunaan akhir produk TMK Final consumption expenditure on ICT products	5.6	4.6	-18.6	3.1	9.5	8.2	-17.3	7.0
Pembentukan modal kasar produk TMK Gross capital formation on ICT products	50.5	2.0	13.6	19.1	9.0	8.0	5.3	8.4
Eksport produk TMK Exports of ICT products	6.4	8.6	-4.0	6.3	13.8	12.3	-12.4	13.1
Jumlah penggunaan produk TMK Total use of ICT products	4.7	4.2	-9.4	3.8	13.5	7.8	-6.4	10.9

Jadual 2B: Penawaran dan penggunaan produk TMK - Perubahan peratusan tahunan (Samb.)
Table 2B: Supply and use of ICT products - Annual percentage change (Cont.)

2022 ^e					2023 ^p			
Perubahan peratusan tahunan (%) Annual percentage change (%)								
Penawaran/ Supply								
Komponen Component	Barangan TMK	Perkhidmatan TMK	Produk kandungan dan media	Jumlah	Barangan TMK	Perkhidmatan TMK	Produk kandungan dan media	Jumlah
	ICT goods	ICT services	Content and media products	Total	ICT goods	ICT services	Content and media products	Total
Pengeluaran domestik TMK ICT domestic production	19.7	7.4	8.9	15.0	1.7	1.9	6.7	2.0
Import produk TMK Imports of ICT products	20.6	19.3	7.5	20.3	-17.3	13.8	0.1	-13.7
Cukai tolak subsidi ke atas produk TMK Taxes less subsidies on ICT products	0.1	0.4	11.3	3.9	8.5	3.0	5.8	4.5
Jumlah penawaran produk TMK Total supply of ICT products	20.0	8.6	8.9	16.4	-5.0	3.4	6.0	-2.5
Penggunaan/ Use								
Komponen Component	Barangan TMK	Perkhidmatan TMK	Produk kandungan dan media	Jumlah	Barangan TMK	Perkhidmatan TMK	Produk kandungan dan media	Jumlah
	ICT goods	ICT services	Content and media products	Total	ICT goods	ICT services	Content and media products	Total
Penggunaan perantaraan produk TMK Intermediate use on ICT products	13.4	8.4	3.0	11.2	-6.7	3.4	11.2	-2.7
Perbelanjaan penggunaan akhir produk TMK Final consumption expenditure on ICT products	-3.8	3.5	64.1	4.5	7.4	4.3	3.1	4.9
Pembentukan modal kasar produk TMK Gross capital formation on ICT products	-0.3	10.5	16.7	5.8	17.4	4.3	8.1	9.9
Eksport produk TMK Exports of ICT products	28.8	21.8	-10.6	27.6	-5.5	0.5	-17.6	-5.2
Jumlah penggunaan produk TMK Total use of ICT products	20.0	8.6	8.9	16.4	-5.0	3.4	6.0	-2.5

Jadual 2C Penawaran dan penggunaan produk TMK - Peratus sumbangan
Table Supply and use of ICT products - Percentage share

2015					2016			
Peratus sumbangan (%) Percentage share (%)								
Penawaran/ Supply								
Komponen Components	Barangan TMK	Perkhidmatan TMK	Produk kandungan dan media	Jumlah	Barangan TMK	Perkhidmatan TMK	Produk kandungan dan media	Jumlah
	ICT goods	ICT services	Content and media products	Total	ICT goods	ICT services	Content and media products	Total
Pengeluaran domestik TMK ICT domestic production	66.3	86.0	80.3	72.2	66.9	87.0	81.8	73.1
Import produk TMK Imports of ICT products	33.3	12.1	15.1	26.7	32.7	11.1	13.9	25.9
Cukai tolak subsidi ke atas produk TMK Taxes less subsidies on ICT products	0.4	2.0	4.5	1.0	0.4	1.9	4.3	1.0
Jumlah penawaran produk TMK Total supply of ICT products	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Penggunaan/ Use								
Komponen Components	Barangan TMK	Perkhidmatan TMK	Produk kandungan dan media	Jumlah	Barangan TMK	Perkhidmatan TMK	Produk kandungan dan media	Jumlah
	ICT goods	ICT services	Content and media products	Total	ICT goods	ICT services	Content and media products	Total
Penggunaan perantaraan produk TMK <i>Intermediate use on ICT products</i>	47.6	50.2	49.2	48.4	49.7	51.4	51.4	50.2
Perbelanjaan penggunaan akhir produk TMK <i>Final consumption expenditure on ICT products</i>	3.9	28.1	28.0	11.6	4.0	27.7	27.5	11.7
Pembentukan modal kasar produk TMK <i>Gross capital formation on ICT products</i>	4.2	9.5	1.2	5.5	4.3	9.3	1.1	5.5
Eksport produk TMK <i>Exports of ICT products</i>	44.2	12.3	21.6	34.6	42.0	11.6	20.0	32.6
Jumlah penggunaan produk TMK <i>Total use of ICT products</i>	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Jadual 2C Penawaran dan penggunaan produk TMK - Peratus sumbangan (Samb.)
Table 2C Supply and use of ICT products - Percentage share (Cont.)

2017					2018			
Peratus sumbangan (%) Percentage share (%)								
Penawaran/ Supply								
Komponen Components	Barangan TMK	Perkhidmatan TMK	Produk kandungan dan media	Jumlah	Barangan TMK	Perkhidmatan TMK	Produk kandungan dan media	Jumlah
	ICT goods	ICT services	Content and media products	Total	ICT goods	ICT services	Content and media products	Total
Pengeluaran domestik TMK ICT domestic production	63.1	88.6	84.1	71.0	64.5	90.2	87.1	72.5
Import produk TMK Imports of ICT products	36.5	9.9	12.4	28.2	35.2	9.1	11.0	27.0
Cukai tolak subsidi ke atas produk TMK Taxes less subsidies on ICT products	0.4	1.5	3.5	0.8	0.3	0.7	1.8	0.5
Jumlah penawaran produk TMK Total supply of ICT products	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Penggunaan/ Use								
Komponen Components	Barangan TMK	Perkhidmatan TMK	Produk kandungan dan media	Jumlah	Barangan TMK	Perkhidmatan TMK	Produk kandungan dan media	Jumlah
	ICT goods	ICT services	Content and media products	Total	ICT goods	ICT services	Content and media products	Total
Penggunaan perantaraan produk TMK <i>Intermediate use on ICT products</i>	45.6	51.4	54.2	47.6	42.7	51.6	67.2	46.4
Perbelanjaan penggunaan akhir produk TMK <i>Final consumption expenditure on ICT products</i>	3.6	28.5	26.4	11.4	3.6	28.8	15.2	11.0
Pembentukan modal kasar produk TMK <i>Gross capital formation on ICT products</i>	4.0	9.2	1.3	5.2	3.1	9.2	1.2	4.6
Eksport produk TMK <i>Exports of ICT products</i>	46.8	10.9	18.1	35.8	50.6	10.4	16.5	38.0
Jumlah penggunaan produk TMK <i>Total use of ICT products</i>	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Jadual 2C Penawaran dan penggunaan produk TMK - Peratus sumbangan (Samb.)
Table Supply and use of ICT products - Percentage share (Cont.)

2019					2020			
Peratus sumbangan (%) Percentage share (%)								
Penawaran/ Supply								
Komponen Components	Barangan TMK	Perkhidmatan TMK	Produk kandungan dan media	Jumlah	Barangan TMK	Perkhidmatan TMK	Produk kandungan dan media	Jumlah
	ICT goods	ICT services	Content and media products	Total	ICT goods	ICT services	Content and media products	Total
Pengeluaran domestik TMK ICT domestic production	66.4	90.0	87.6	74.2	66.4	89.5	88.8	74.0
Import produk TMK Imports of ICT products	33.2	8.7	10.2	25.0	33.4	9.4	9.9	25.5
Cukai tolak subsidi ke atas produk TMK Taxes less subsidies on ICT products	0.4	1.3	2.2	0.8	0.2	1.1	1.4	0.5
Jumlah penawaran produk TMK Total supply of ICT products	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Penggunaan/ Use								
Komponen Components	Barangan TMK	Perkhidmatan TMK	Produk kandungan dan media	Jumlah	Barangan TMK	Perkhidmatan TMK	Produk kandungan dan media	Jumlah
	ICT goods	ICT services	Content and media products	Total	ICT goods	ICT services	Content and media products	Total
Penggunaan perantaraan produk TMK <i>Intermediate use on ICT products</i>	44.8	52.1	67.6	48.1	43.1	51.8	68.1	46.8
Perbelanjaan penggunaan akhir produk TMK <i>Final consumption expenditure on ICT products</i>	4.1	29.0	16.1	11.8	4.2	29.1	14.4	11.7
Pembentukan modal kasar produk TMK <i>Gross capital formation on ICT products</i>	2.0	8.6	0.9	3.8	2.9	8.5	1.2	4.4
Eksport produk TMK <i>Exports of ICT products</i>	49.1	10.2	15.4	36.3	49.8	10.6	16.3	37.1
Jumlah penggunaan produk TMK <i>Total use of ICT products</i>	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Jadual 2C Penawaran dan penggunaan produk TMK - Peratus sumbangan (Samb.)
Table 2C Supply and use of ICT products - Percentage share (Cont.)

2021					2022 ^e			
Peratus sumbangan (%) Percentage share (%)								
Penawaran/ Supply								
Komponen Components	Barangan TMK	Perkhidmatan TMK	Produk kandungan dan media	Jumlah	Barangan TMK	Perkhidmatan TMK	Produk kandungan dan media	Jumlah
	ICT goods	ICT services	Content and media products	Total	ICT goods	ICT services	Content and media products	Total
Pengeluaran domestik TMK ICT domestic production	64.4	87.6	84.0	71.6	64.2	86.7	84.0	70.7
Import produk TMK Imports of ICT products	35.5	10.9	10.4	27.7	35.7	12.0	10.3	28.7
Cukai tolak subsidi ke atas produk TMK Taxes less subsidies on ICT products	0.1	1.5	5.6	0.7	0.1	1.4	5.7	0.6
Jumlah penawaran produk TMK Total supply of ICT products	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Penggunaan/ Use								
Komponen Components	Barangan TMK	Perkhidmatan TMK	Produk kandungan dan media	Jumlah	Barangan TMK	Perkhidmatan TMK	Produk kandungan dan media	Jumlah
	ICT goods	ICT services	Content and media products	Total	ICT goods	ICT services	Content and media products	Total
Penggunaan perantaraan produk TMK <i>Intermediate use on ICT products</i>	43.2	51.2	70.6	46.6	40.9	51.1	66.8	44.5
Perbelanjaan penggunaan akhir produk TMK <i>Final consumption expenditure on ICT products</i>	4.0	29.2	12.8	11.3	3.2	27.8	19.2	10.1
Pembentukan modal kasar produk TMK <i>Gross capital formation on ICT products</i>	2.8	8.5	1.3	4.3	2.3	8.6	1.4	3.9
Eksport produk TMK <i>Exports of ICT products</i>	50.0	11.1	15.3	37.8	53.6	12.4	12.5	41.5
Jumlah penggunaan produk TMK <i>Total use of ICT products</i>	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Jadual 2C: Penawaran dan penggunaan produk TMK - Peratus sumbangan (Samb.)
Table 2C: Supply and use of ICT products - Percentage share (Cont.)

2023 ^p				
Peratus sumbangan (%) Percentage share (%)				
Penawaran/ Supply				
Komponen Components	Barangan TMK ICT goods	Perkhidmatan TMK ICT services	Produk kandungan dan media Content and media products	Jumlah Total
Pengeluaran domestik TMK <i>ICT domestic production</i>	68.8	85.5	84.6	74.0
Import produk TMK <i>Imports of ICT products</i>	31.1	13.2	9.7	25.3
Cukai tolak subsidi ke atas produk TMK <i>Taxes less subsidies on ICT products</i>	0.1	1.4	5.7	0.7
Jumlah penawaran produk TMK <i>Total supply of ICT products</i>	100.0	100.0	100.0	100.0
Penggunaan/ Use				
Komponen Components	Barangan TMK ICT goods	Perkhidmatan TMK ICT services	Produk kandungan dan media Content and media products	Jumlah Total
Penggunaan perantaraan produk TMK <i>Intermediate use on ICT products</i>	40.1	51.2	70.1	44.4
Perbelanjaan penggunaan akhir produk TMK <i>Final consumption expenditure on ICT products</i>	3.6	28.1	18.7	10.9
Pembentukan modal kasar produk TMK <i>Gross capital formation on ICT products</i>	2.9	8.7	1.4	4.4
Eksport produk TMK <i>Exports of ICT products</i>	53.4	12.1	9.8	40.3
Jumlah penggunaan produk TMK <i>Total use of ICT products</i>	100.0	100.0	100.0	100.0

Jadual 3 Eksport produk TMK
Table Exports of ICT products

Produk TMK ICT products	2015	2016	2017	2018	2019	2020	2021	2022	2023 ^P
RM Juta RM Million									
1. Barangan TMK ICT goods	185,965	188,913	236,950	273,915	265,677	282,575	321,489	414,056	391,300
2. Perkhidmatan TMK ICT services	20,005	20,944	21,429	22,125	23,507	25,524	28,656	34,901	35,082
3. Produk kandungan dan media Content and media products	6,725	6,789	6,854	6,866	6,949	6,672	5,846	5,225	4,307
Jumlah eksport produk TMK Total exports of ICT products	212,695	216,647	265,234	302,905	296,133	314,771	355,992	454,182	430,689
Jumlah eksport Total exports	817,370	834,491	960,778	992,511	987,481	873,477	1,093,895	1,378,618	1,250,183

Perubahan peratusan tahunan (%) Annual percentage change (%)									
1. Barangan TMK ICT goods		1.6	25.4	15.6	-3.0	6.4	13.8	28.8	-5.5
2. Perkhidmatan TMK ICT services		4.7	2.3	3.2	6.2	8.6	12.3	21.8	0.5
3. Produk kandungan dan media Content and media products		1.0	0.9	0.2	1.2	-4.0	-12.4	-10.6	-17.6
Jumlah eksport produk TMK Total exports of ICT products		1.9	22.4	14.2	-2.2	6.3	13.1	27.6	-5.2
Jumlah eksport Total exports		2.1	15.1	3.3	-0.5	-11.5	25.2	26.0	-9.3

Peratus sumbangan jumlah eksport produk TMK (%) Percentage share total exports of ICT products (%)									
1. Barangan TMK ICT goods	87.4	87.2	89.3	90.4	89.7	89.8	90.3	91.2	90.9
2. Perkhidmatan TMK ICT services	9.4	9.7	8.1	7.3	7.9	8.1	8.1	7.7	8.1
3. Produk kandungan dan media Content and media products	3.2	3.1	2.6	2.3	2.4	2.1	1.6	1.1	1.0
Jumlah eksport produk TMK Total exports of ICT products	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Peratus sumbangan jumlah eksport (%) Percentage share total exports (%)									
Jumlah eksport produk TMK Total exports of ICT products	26.0	26.0	27.6	30.5	30.0	36.0	32.5	32.9	34.5

Jadual  **Import produk TMK**
Table Imports of ICT products

Produk TMK ICT products	2015	2016	2017	2018	2019	2020	2021	2022	2023 ^P
RM Juta RM Million									
1. Barangan TMK ICT goods	139,893	147,360	184,867	190,852	179,989	189,077	228,610	275,804	228,171
2. Perkhidmatan TMK ICT services	19,651	20,059	19,452	19,511	20,000	22,671	28,187	33,634	38,266
3. Produk kandungan dan media Content and media products	4,720	4,722	4,688	4,601	4,619	4,041	3,979	4,279	4,283
Jumlah import produk TMK Total imports of ICT products	164,264	172,141	209,008	214,964	204,608	215,790	260,776	313,717	270,720
Jumlah import Total imports	728,778	751,363	866,524	895,405	873,618	783,152	981,922	1,249,547	1,157,224

Perubahan peratusan tahunan (%) Annual percentage change (%)									
1. Barangan TMK ICT goods		5.3	25.5	3.2	-5.7	5.0	20.9	20.6	-17.3
2. Perkhidmatan TMK ICT services		2.1	-3.0	0.3	2.5	13.4	24.3	19.3	13.8
3. Produk kandungan dan media Content and media products		0.0	-0.7	-1.9	0.4	-12.5	-1.5	7.5	0.1
Jumlah import produk TMK Total imports of ICT products		4.8	21.4	2.8	-4.8	5.5	20.8	20.3	-13.7
Jumlah import Total imports		3.1	15.3	3.3	-2.4	-10.4	25.4	27.3	-7.4

Peratus sumbangan jumlah import produk TMK (%) Percentage share total imports of ICT products (%)									
1. Barangan TMK ICT goods	85.1	85.6	88.5	88.8	88.0	87.6	87.7	87.9	84.3
2. Perkhidmatan TMK ICT services	12.0	11.7	9.3	9.1	9.8	10.5	10.8	10.7	14.1
3. Produk kandungan dan media Content and media products	2.9	2.7	2.2	2.1	2.2	1.9	1.5	1.4	1.6
Jumlah import produk TMK Total imports of ICT products	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Peratus sumbangan jumlah import (%) Percentage share total imports (%)									
Jumlah import produk TMK Total imports of ICT products	22.5	22.9	24.1	24.0	23.4	27.6	26.6	25.1	23.4

Jadual 5. Komponen pendapatan industri TMK
Table 5. Income components of ICT industry

Komponen Components	2015	2016	2017	2018	2019	2020	2021	2022 ^e	2023 ^p
RM Juta RM Million									
Pampasan pekerja <i>Compensation of employees</i>	56,258	60,600	66,726	70,165	73,415	73,314	78,184	84,593	86,733
Lebihan kendalian kasar <i>Gross operating surplus</i>	84,720	91,937	100,060	109,717	116,899	124,813	135,664	152,946	158,577
Cukai tolak subsidi ke atas pengeluaran dan import <i>Taxes less subsidies on production and imports</i>	5,594	5,862	5,242	3,196	4,877	3,136	4,031	5,179	6,640
Jumlah <i>Total</i>	146,571	158,399	172,029	183,078	195,191	201,263	217,878	242,718	251,951

Perubahan peratusan tahunan (%) Annual percentage change (%)									
Pampasan pekerja <i>Compensation of employees</i>		7.7	10.1	5.2	4.6	-0.1	6.6	8.2	2.5
Lebihan kendalian kasar <i>Gross operating surplus</i>		8.5	8.8	9.7	6.5	6.8	8.7	12.7	3.7
Cukai tolak subsidi ke atas pengeluaran dan import <i>Taxes less subsidies on production and imports</i>		4.8	-10.6	-39.0	52.6	-35.7	28.5	28.5	28.2
Jumlah <i>Total</i>		8.1	8.6	6.4	6.6	3.1	8.3	11.4	3.8

Peratus sumbangan (%) Percentage share (%)									
Pampasan pekerja <i>Compensation of employees</i>	38.4	38.3	38.8	38.3	37.6	36.4	35.9	34.9	34.4
Lebihan kendalian kasar <i>Gross operating surplus</i>	57.8	58.0	58.2	59.9	59.9	62.0	62.3	63.0	62.9
Cukai tolak subsidi ke atas pengeluaran dan import <i>Taxes less subsidies on production and imports</i>	3.8	3.7	3.0	1.8	2.5	1.6	1.8	2.1	2.6
Jumlah <i>Total</i>	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Jadual 6 Guna tenaga dalam industri TMK
Table 6 Employment in the ICT industry

Jenis aktiviti ekonomi Kind of economic activity	2015	2016	2017	2018	2019	2020	2021	2022	2023
Bilangan orang ('000) Number of persons ('000)									
1. Pembuatan TMK ICT manufacturing	408	407	412	415	416	409	433	439	441
2. Perdagangan TMK ICT trade	218	220	224	234	238	252	263	264	277
3. Perkhidmatan TMK ICT services	286	290	302	316	325	341	352	357	361
4. Kandungan dan media Content and media	152	155	155	156	156	156	157	158	158
Jumlah guna tenaga dalam industri TMK <i>Total employment in the ICT industry</i>	1,064	1,072	1,094	1,122	1,136	1,158	1,206	1,217	1,237
Jumlah guna tenaga <i>Total employment</i>	14,068	14,164	14,477	14,776	15,073	14,719	14,825	15,155	15,813
Perubahan peratusan tahunan (%) Annual percentage change (%)									
1. Pembuatan TMK ICT manufacturing		-0.2	1.2	0.7	0.2	-1.6	5.8	1.4	0.4
2. Perdagangan TMK ICT trade		0.8	2.2	4.3	1.6	5.8	4.6	0.3	4.8
3. Perkhidmatan TMK ICT services		1.2	4.1	5.0	2.8	4.9	3.3	1.2	1.3
4. Kandungan dan media Content and media		2.0	0.3	0.3	0.2	-0.1	0.6	0.4	0.1
Jumlah guna tenaga dalam industri TMK <i>Total employment in the ICT industry</i>		0.7	2.1	2.5	1.2	2.0	4.1	1.0	1.6
Jumlah guna tenaga <i>Total employment</i>		0.7	2.2	2.1	2.0	-2.3	0.7	2.2	4.3
Peratus sumbangan jumlah guna tenaga dalam industri TMK (%) Percentage share total employment in the ICT industry (%)									
1. Pembuatan TMK ICT manufacturing	38.4	38.0	37.7	37.0	36.6	35.3	35.9	36.1	35.6
2. Perdagangan TMK ICT trade	20.5	20.5	20.5	20.9	21.0	21.7	21.8	21.7	22.4
3. Perkhidmatan TMK ICT services	26.9	27.0	27.6	28.2	28.7	29.5	29.2	29.3	29.2
4. Kandungan dan media Content and media	14.3	14.5	14.2	13.9	13.7	13.5	13.0	12.9	12.8
Jumlah guna tenaga dalam industri TMK <i>Total employment in the ICT industry</i>	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Peratus sumbangan jumlah guna tenaga (%) Percentage share total employment (%)									
Jumlah guna tenaga dalam industri TMK <i>Total employment in the ICT industry</i>	7.6	7.6	7.6	7.6	7.5	7.9	8.1	8.0	7.8

Jadual 7A: Nilai Ditambah Kasar Industri TMK - RM Juta
Table 7A: Gross Value Added of ICT Industry - RM Million

Jenis aktiviti ekonomi Kind of economic activity	2015	2016	2017	2018	2019	2020	2021	2022 ^e	2023 ^p
RM Juta RM Million									
1. Pembuatan TMK <i>ICT manufacturing</i>	52,076	56,287	60,598	62,064	65,686	69,485	77,748	93,973	96,180
1.1 Komputer dan kelengkapan peranti <i>Computers and peripheral equipment</i>	5,339	5,549	5,162	5,247	5,651	6,038	6,564	6,499	6,911
1.2 Komponen & papan elektronik, peralatan komunikasi dan elektronik pengguna <i>Electronic components & boards, communication equipment and consumer electronics</i>	46,737	50,737	55,436	56,817	60,035	63,447	71,184	87,473	89,269
2. Perdagangan TMK <i>ICT trade</i>	22,430	24,361	26,430	28,189	30,085	28,489	30,418	34,408	35,682
2.1 Perdagangan borong <i>Wholesale trade</i>	7,768	8,251	8,740	9,163	9,638	9,215	9,635	10,830	11,368
2.2 Perdagangan runcit <i>Retail trade</i>	14,661	16,110	17,690	19,026	20,447	19,274	20,784	23,578	24,313
3. Perkhidmatan TMK <i>ICT services</i>	60,803	65,681	72,076	79,240	84,976	90,553	97,150	100,297	104,966
3.1 Telekomunikasi <i>Telecommunications</i>	41,012	45,090	49,520	53,973	57,819	63,054	68,090	70,841	73,193
3.2 Pengaturcaraan komputer, perundingan, maklumat dan aktiviti yang berkaitan <i>Computer programming, consultancy, information and related activities</i>	14,219	15,147	16,323	17,639	18,740	19,446	19,947	21,174	21,934
3.3 Perkhidmatan TMK lain <i>Other ICT services</i>	5,572	5,444	6,233	7,629	8,417	8,053	9,113	8,282	9,840
4. Kandungan dan media <i>Content and media</i>	11,263	12,070	12,924	13,585	14,443	12,737	12,562	14,041	15,123
4.1 Aktiviti penerbitan buku, terbitan berkala dan penerbitan lain <i>Publishing of books, periodicals and other publishing activities</i>	5,446	5,757	6,013	6,122	6,500	5,931	5,840	6,234	6,544
4.2 Aktiviti wayang gambar, video, program televisyen, fotografi dan kreatif <i>Motion picture, video, television programme, photographic and creative activities</i>	2,209	2,428	2,673	2,813	3,101	2,210	1,997	2,680	3,200
4.3 Kandungan dan media lain <i>Other content and media</i>	3,608	3,885	4,238	4,650	4,842	4,596	4,724	5,127	5,380
Nilai Ditambah Kasar Industri TMK <i>Gross Value Added of ICT Industry</i>	146,571	158,399	172,029	183,078	195,191	201,263	217,878	242,718	251,951
Keluaran Dalam Negeri Kasar <i>Gross Domestic Product</i>	1,176,941	1,249,698	1,372,310	1,447,760	1,512,738	1,418,491	1,548,701	1,793,903	1,822,904

Jadual 7B: Nilai Ditambah Kasar Industri TMK - Perubahan peratusan tahunan
Table 7B: Gross Value Added of ICT Industry - Annual percentage change

Jenis aktiviti ekonomi Kind of economic activity	2016	2017	2018	2019	2020	2021	2022 ^e	2023 ^p
Perubahan peratusan tahunan (%) Annual percentage change (%)								
1. Pembuatan TMK <i>ICT manufacturing</i>	8.1	7.7	2.4	5.8	5.8	11.9	20.9	2.3
1.1 Komputer dan kelengkapan peranti <i>Computers and peripheral equipment</i>	3.9	-7.0	1.6	7.7	6.8	8.7	-1.0	6.3
1.2 Komponen & papan elektronik, peralatan komunikasi dan elektronik pengguna <i>Electronic components & boards, communication equipment and consumer electronics</i>	8.6	9.3	2.5	5.7	5.7	12.2	22.9	2.1
2. Perdagangan TMK <i>ICT trade</i>	8.6	8.5	6.7	6.7	-5.3	6.8	13.1	3.7
2.1 Perdagangan borong <i>Wholesale trade</i>	6.2	5.9	4.8	5.2	-4.4	4.6	12.4	5.0
2.2 Perdagangan runcit <i>Retail trade</i>	9.9	9.8	7.6	7.5	-5.7	7.8	13.4	3.1
3. Perkhidmatan TMK <i>ICT services</i>	8.0	9.7	9.9	7.2	6.6	7.3	3.2	4.7
3.1 Telekomunikasi <i>Telecommunications</i>	9.9	9.8	9.0	7.1	9.1	8.0	4.0	3.3
3.2 Pengaturcaraan komputer, perundingan, maklumat dan aktiviti yang berkaitan <i>Computer programming, consultancy, information and related activities</i>	6.5	7.8	8.1	6.2	3.8	2.6	6.1	3.6
3.3 Perkhidmatan TMK lain <i>Other ICT services</i>	-2.3	14.5	22.4	10.3	-4.3	13.2	-9.1	18.8
4. Kandungan dan media <i>Content and media</i>	7.2	7.1	5.1	6.3	-11.8	-1.4	11.8	7.7
4.1 Aktiviti penerbitan buku, terbitan berkala dan penerbitan lain <i>Publishing of books, periodicals and other publishing activities</i>	5.7	4.4	1.8	6.2	-8.8	-1.5	6.7	5.0
4.2 Aktiviti wayang gambar, video, program televisyen, fotografi dan kreatif <i>Motion picture, video, television programme, photographic and creative activities</i>	9.9	10.1	5.2	10.2	-28.7	-9.6	34.2	19.4
4.3 Kandungan dan media lain <i>Other content and media</i>	7.7	9.1	9.7	4.1	-5.1	2.8	8.5	4.9
Nilai Ditambah Kasar Industri TMK <i>Gross Value Added of ICT Industry</i>	8.1	8.6	6.4	6.6	3.1	8.3	11.4	3.8
Keluaran Dalam Negeri Kasar <i>Gross Domestic Product</i>	6.2	9.8	5.5	4.5	-6.2	9.2	15.8	1.6

Jadual 7C: Nilai Ditambah Kasar Industri TMK - Peratus sumbangan
Table 7C: Gross Value Added of ICT Industry - Percentage share

Jenis aktiviti ekonomi <i>Kind of economic activity</i>	2015	2016	2017	2018	2019	2020	2021	2022 ^e	2023 ^p
Peratus sumbangan Nilai Ditambah Kasar Industri TMK (%) <i>Percentage share Gross Value Added of ICT Industry (%)</i>									
1. Pembuatan TMK <i>ICT manufacturing</i>	35.5	35.5	35.2	33.9	33.7	34.5	35.7	38.7	38.2
1.1 Komputer dan kelengkapan peranti <i>Computers and peripheral equipment</i>	3.6	3.5	3.0	2.9	2.9	3.0	3.0	2.7	2.7
1.2 Komponen & papan elektronik, peralatan komunikasi dan elektronik pengguna <i>Electronic components & boards, communication equipment and consumer electronics</i>	31.9	32.0	32.2	31.0	30.8	31.5	32.7	36.0	35.4
2. Perdagangan TMK <i>ICT trade</i>	15.3	15.4	15.4	15.4	15.4	14.2	14.0	14.2	14.2
2.1 Perdagangan borong <i>Wholesale trade</i>	5.3	5.2	5.1	5.0	4.9	4.6	4.4	4.5	4.5
2.2 Perdagangan runcit <i>Retail trade</i>	10.0	10.2	10.3	10.4	10.5	9.6	9.5	9.7	9.7
3. Perkhidmatan TMK <i>ICT services</i>	41.5	41.5	41.9	43.3	43.5	45.0	44.6	41.3	41.7
3.1 Telekomunikasi <i>Telecommunications</i>	28.0	28.5	28.8	29.5	29.6	31.3	31.3	29.2	29.1
3.2 Pengaturcaraan komputer, perundingan, maklumat dan aktiviti yang berkaitan <i>Computer programming, consultancy, information and related activities</i>	9.7	9.6	9.5	9.6	9.6	9.7	9.2	8.7	8.7
3.3 Perkhidmatan TMK lain <i>Other ICT services</i>	3.8	3.4	3.6	4.2	4.3	4.0	4.2	3.4	3.9
4. Kandungan dan media <i>Content and media</i>	7.7	7.6	7.5	7.4	7.4	6.3	5.8	5.8	6.0
4.1 Aktiviti penerbitan buku, terbitan berkala dan penerbitan lain <i>Publishing of books, periodicals and other publishing activities</i>	3.7	3.6	3.5	3.3	3.3	2.9	2.7	2.6	2.6
4.2 Aktiviti wayang gambar, video, program televisyen, fotografi dan kreatif <i>Motion picture, video, television programme, photographic and creative activities</i>	1.5	1.5	1.6	1.5	1.6	1.1	0.9	1.1	1.3
4.3 Kandungan dan media lain <i>Other content and media</i>	2.5	2.5	2.5	2.5	2.5	2.3	2.2	2.1	2.1
Nilai Ditambah Kasar Industri TMK <i>Gross Value Added of ICT Industry</i>	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Peratus sumbangan kepada KDNK (%) <i>Percentage share to GDP (%)</i>									
Nilai Ditambah Kasar Industri TMK <i>Gross Value Added of ICT Industry</i>	12.5	12.7	12.5	12.7	12.9	14.2	14.1	13.5	13.8

Jadual 8A: Nilai Ditambah Kasar e-dagang mengikut industri TMK
Table Gross Value Added of e-commerce by ICT industry

Jenis aktiviti ekonomi <i>Kind of economic activity</i>	2015	2016	2017	2018	2019	2020	2021	2022 ^e	2023 ^p
RM Juta <i>RM Million</i>									
Industri TMK/ ICT industry	22,712	26,013	28,520	30,341	34,507	44,854	58,689	70,553	72,428
1. Pembuatan TMK <i>ICT manufacturing</i>	16,319	18,749	20,044	20,504	22,449	27,758	35,713	43,945	44,883
2. Perdagangan TMK <i>ICT trade</i>	1,771	2,086	2,805	3,668	4,824	7,433	10,195	12,356	12,722
3. Perkhidmatan TMK <i>ICT services</i>	3,825	4,156	4,588	5,044	6,033	8,126	10,979	12,162	12,533
4. Kandungan dan media <i>Content and media</i>	797	1,022	1,082	1,126	1,201	1,536	1,802	2,090	2,290
Industri bukan TMK/ Non ICT industry	66,434	69,631	78,783	87,106	94,844	119,007	142,090	168,867	175,736
Nilai Ditambah Kasar e-dagang <i>Gross Value Added of e-commerce</i>	89,145	95,644	107,303	117,448	129,351	163,860	200,780	239,420	248,164
Perubahan peratusan tahunan (%) <i>Annual percentage change (%)</i>									
Industri TMK/ ICT industry	14.5	9.6	6.4	13.7	30.0	30.8	20.2	2.7	2.7
1. Pembuatan TMK <i>ICT manufacturing</i>	14.9	6.9	2.3	9.5	23.6	28.7	23.1	2.1	2.1
2. Perdagangan TMK <i>ICT trade</i>	17.8	34.5	30.8	31.5	54.1	37.2	21.2	3.0	3.0
3. Perkhidmatan TMK <i>ICT services</i>	8.7	10.4	9.9	19.6	34.7	35.1	10.8	3.0	3.0
4. Kandungan dan media <i>Content and media</i>	28.3	5.9	4.1	6.6	27.9	17.4	16.0	9.6	9.6
Industri bukan TMK/ Non ICT industry	4.8	13.1	10.6	8.9	25.5	19.4	18.8	4.1	4.1
Nilai Ditambah Kasar e-dagang <i>Gross Value Added of e-commerce</i>	7.3	12.2	9.5	10.1	26.7	22.5	19.2	3.7	3.7
Peratus sumbangan Nilai Ditambah Kasar e-dagang (%) <i>Percentage share Gross Value Added of e-commerce (%)</i>									
Industri TMK/ ICT industry	25.5	27.2	26.6	25.8	26.7	27.4	29.2	29.5	29.2
1. Pembuatan TMK <i>ICT manufacturing</i>	18.3	19.6	18.7	17.4	17.4	17.0	17.8	18.4	18.1
2. Perdagangan TMK <i>ICT trade</i>	2.0	2.2	2.6	3.1	3.7	4.5	5.1	5.2	5.1
3. Perkhidmatan TMK <i>ICT services</i>	4.3	4.3	4.3	4.3	4.7	5.0	5.5	5.1	5.1
4. Kandungan dan media <i>Content and media</i>	0.9	1.1	1.0	1.0	0.9	0.9	0.9	0.9	0.9
Industri bukan TMK/ Non ICT industry	74.5	72.8	73.4	74.2	73.3	72.6	70.8	70.5	70.8
Nilai Ditambah Kasar e-dagang <i>Gross Value Added of e-commerce</i>	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Peratus sumbangan kepada KDNK (%) <i>Percentage share to GDP (%)</i>									
Industri TMK/ ICT industry	1.9	2.1	2.1	2.1	2.3	3.2	3.8	3.9	4.0
Industri bukan TMK/ Non ICT industry	5.6	5.6	5.7	6.0	6.3	8.4	9.2	9.4	9.6
Nilai Ditambah Kasar e-dagang <i>Gross Value Added of e-commerce</i>	7.6	7.7	7.8	8.1	8.6	11.6	13.0	13.3	13.6

Jadual 8B: Nilai Ditambah Kasar e-dagang mengikut sektor utama
Table 8B: Gross Value Added of e-commerce by main sector

Jenis aktiviti ekonomi Kind of economic activity	2015	2016	2017	2018	2019	2020	2021	2022 ^e	2023 ^p
RM Juta RM Million									
1. Pertanian Agriculture	155	170	276	276	293	347	415	443	429
2. Perlombongan dan Pengkuarian Mining and Quarrying	3,743	3,537	4,160	4,875	4,942	5,577	7,081	7,985	6,704
3. Pembuatan Manufacturing	57,855	60,865	66,933	69,382	73,703	89,030	115,736	127,496	128,588
4. Pembinaan Construction	64	77	76	76	76	98	101	124	132
5. Perkhidmatan Services	27,328	30,995	35,858	42,840	50,336	68,808	77,447	103,372	112,312
Nilai Ditambah Kasar e-dagang Gross Value Added of e-commerce	89,145	95,644	107,303	117,448	129,351	163,860	200,780	239,420	248,164
Perubahan peratusan tahunan (%) Annual percentage change (%)									
1. Pertanian Agriculture		9.5	62.7	-0.2	6.4	18.2	19.7	6.8	-3.2
2. Perlombongan dan Pengkuarian Mining and Quarrying		-5.5	17.6	17.2	1.4	12.8	27.0	12.8	-16.0
3. Pembuatan Manufacturing		5.2	10.0	3.7	6.2	20.8	30.0	10.2	0.9
4. Pembinaan Construction		19.7	-1.0	-0.7	-0.1	30.0	2.9	22.4	6.3
5. Perkhidmatan Services		13.4	15.7	19.5	17.5	36.7	12.6	33.5	8.6
Nilai Ditambah Kasar e-dagang Gross Value Added of e-commerce		7.3	12.2	9.5	10.1	26.7	22.5	19.3	3.7
Peratus sumbangan Nilai Ditambah Kasar e-dagang (%) Percentage share Gross Value Added of e-commerce (%)									
1. Pertanian Agriculture	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
2. Perlombongan dan Pengkuarian Mining and Quarrying	4.2	3.7	3.9	4.1	3.8	3.4	3.5	3.3	2.7
3. Pembuatan Manufacturing	64.9	63.6	62.4	59.1	57.0	54.3	57.6	53.3	51.8
4. Pembinaan Construction	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
5. Perkhidmatan Services	30.7	32.4	33.4	36.5	38.9	42.0	38.6	43.2	45.3
Nilai Ditambah Kasar e-dagang Gross Value Added of e-commerce	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Peratus sumbangan kepada KDNK (%) Percentage share to GDP (%)									
1. Pertanian Agriculture	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2. Perlombongan dan Pengkuarian Mining and Quarrying	0.3	0.3	0.3	0.3	0.3	0.4	0.5	0.4	0.4
3. Pembuatan Manufacturing	4.9	4.9	4.9	4.8	4.9	6.3	7.5	7.1	7.1
4. Pembinaan Construction	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5. Perkhidmatan Services	2.3	2.5	2.6	3.0	3.3	4.9	5.0	5.8	6.2
Nilai Ditambah Kasar e-dagang Gross Value Added of e-commerce	7.6	7.7	7.8	8.1	8.6	11.6	13.0	13.3	13.6

Jadual 9 Sumbangan TMK kepada ekonomi
Table 9 ICT contribution to economy

Jenis aktiviti ekonomi Kind of economic activity	2015	2016	2017	2018	2019	2020	2021	2022 ^e	2023 ^p
RM Juta RM Million									
Industri TMK ICT industry	146,571	158,399	172,029	183,078	195,191	201,263	217,878	242,718	251,951
1. Pembuatan TMK ICT manufacturing	52,076	56,287	60,598	62,064	65,686	69,485	77,748	93,973	96,180
2. Perdagangan TMK ICT trade	22,430	24,361	26,430	28,189	30,085	28,489	30,418	34,408	35,682
3. Perkhidmatan TMK ICT services	60,803	65,681	72,076	79,240	84,976	90,553	97,150	100,297	104,966
4. Kandungan dan media Content and media	11,263	12,070	12,924	13,585	14,443	12,737	12,562	14,041	15,123
E-dagang industri bukan TMK E-commerce of non ICT industry	66,434	69,631	78,783	87,106	94,844	119,007	142,090	168,867	175,736
Jumlah TMK dan e-dagang Total ICT and e-commerce	213,005	228,030	250,812	270,185	290,035	320,270	359,969	411,585	427,687
Perubahan peratusan tahunan (%) Annual percentage change (%)									
Industri TMK ICT industry		8.1	8.6	6.4	6.6	3.1	8.3	11.4	3.8
1. Pembuatan TMK ICT manufacturing		8.1	7.7	2.4	5.8	5.8	11.9	20.9	2.3
2. Perdagangan TMK ICT trade		8.6	8.5	6.7	6.7	-5.3	6.8	13.1	3.7
3. Perkhidmatan TMK ICT services		8.0	9.7	9.9	7.2	6.6	7.3	3.2	4.7
4. Kandungan dan media Content and media		7.2	7.1	5.1	6.3	-11.8	-1.4	11.8	7.7
E-dagang industri bukan TMK E-commerce of non ICT industry		4.8	13.1	10.6	8.9	25.5	19.4	18.8	4.1
Jumlah TMK dan e-dagang Total ICT and e-commerce		7.1	10.0	7.7	7.3	10.4	12.4	14.3	3.9
Peratus sumbangan jumlah TMK dan e-dagang (%) Percentage share of total ICT and e-commerce (%)									
Industri TMK ICT industry	68.8	69.5	68.6	67.8	67.3	62.8	60.5	59.0	58.9
1. Pembuatan TMK ICT manufacturing	24.4	24.7	24.2	23.0	22.6	21.7	21.6	22.8	22.5
2. Perdagangan TMK ICT trade	10.5	10.7	10.5	10.4	10.4	8.9	8.5	8.4	8.3
3. Perkhidmatan TMK ICT services	28.6	28.8	28.7	29.3	29.3	28.3	27.0	24.4	24.5
4. Kandungan dan media Content and media	5.3	5.3	5.2	5.0	5.0	4.0	3.5	3.4	3.5
E-dagang industri bukan TMK E-commerce of non ICT industry	31.2	30.5	31.4	32.2	32.7	37.2	39.5	41.0	41.1
Jumlah TMK dan e-dagang Total ICT and e-commerce	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Peratus sumbangan kepada KDNK (%) Percentage share to GDP (%)									
Industri TMK ICT industry	12.5	12.7	12.5	12.7	12.9	14.2	14.1	13.5	13.8
E-dagang industri bukan TMK E-commerce of non ICT industry	5.6	5.6	5.7	6.0	6.3	8.4	9.2	9.4	9.6
Sumbangan TMK kepada ekonomi ICT contribution to economy	18.1	18.2	18.3	18.7	19.2	22.6	23.2	22.9	23.5

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NOTA TEKNIKAL
TECHNICAL NOTES



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A. Pengenalan Akaun Satelit Teknologi Maklumat dan Komunikasi (ASTMK) Malaysia 2023 adalah berdasarkan *System of National Accounts (SNA) 2008*, *OECD Guide to Measuring the Information Society 2011* dan *OECD Internet Economy Outlook 2012*. Konsep dan definisi yang digunakan telah disesuaikan mengikut keperluan Malaysia.

B. Pembangunan TMK Penyusunan ASTMK dapat dilaksanakan berikutan daripada pematuhan *System of National Accounts* yang kukuh di Malaysia. Terma “akaun satelit” digunakan bagi menggambarkan dengan jelas keadaan akaun yang dibangunkan. Ia merupakan “satelit” kepada set utama Akaun Negara yang mana ia memberikan maklumat tambahan di luar daripada maklumat sedia ada di dalam Akaun Negara.

Maklumat satelit memfokuskan kepada aspek ekonomi tertentu sebagai contoh sumbangan TMK kepada negara. Ia juga membolehkan hubung kait yang lebih banyak kepada maklumat tambahan yang spesifik bagi TMK seperti pendapatan, eksport, import dan guna tenaga. TMK terdiri daripada industri seperti pembuatan, perdagangan, perkhidmatan dan kandungan & media.

Pembangunan akaun satelit merupakan pengukuran statistik bersistematik yang mana ia merangkumi konsep, definisi dan klasifikasi berdasarkan piawaian antarabangsa bagi membolehkan perbandingan di antara Negara dilaksanakan. Pelbagai maklumat diperoleh daripada agensi yang berbeza dikumpulkan di dalam akaun ini untuk memberikan gambaran yang lebih baik dan holistik berkenaan impak industri TMK di Malaysia.

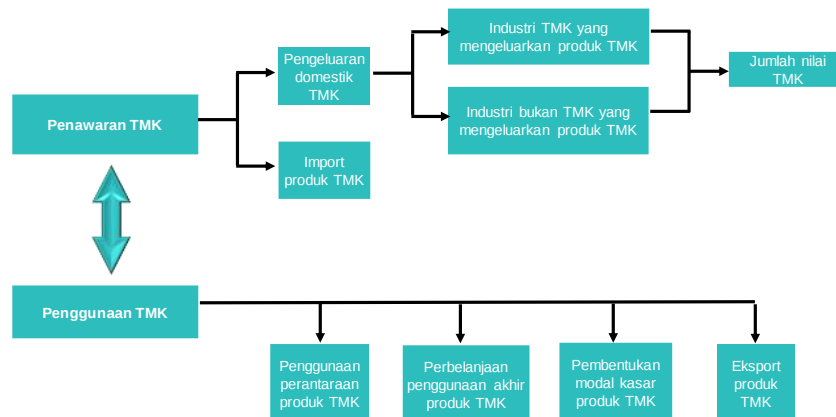
C. Konsep dan Definisi

1. TMK **Teknologi Maklumat dan Komunikasi (TMK)** merujuk kepada teknologi dan perkhidmatan yang membolehkan maklumat dicapai, disimpan, diproses, diubah, dimanipulasi dan disebarkan, termasuk penyiaran atau komunikasi melalui suara, gambar dan/atau data melalui pelbagai media penyiaran.

- 2. Industri TMK** **Industri TMK** merujuk kepada industri yang menghasilkan produk TMK sebagai aktiviti utama. Perincian industri TMK dinyatakan di Bahagian Klasifikasi. Kategori utama industri TMK yang digunakan di dalam penyusunan ASTMK adalah:
1. Pembuatan TMK
 2. Perdagangan TMK
 3. Perkhidmatan TMK
 4. Kandungan dan media
- 3. Industri bukan TMK** **Industri bukan TMK** adalah merujuk kepada industri selain daripada industri TMK yang mengeluarkan produk TMK.
- 4. Produk TMK** Perincian **produk TMK** adalah seperti yang disenaraikan di Bahagian Klasifikasi. Kategori utama produk TMK adalah seperti berikut:
1. Barangan TMK
 - 1.1. Komputer dan kelengkapan peranti
 - 1.2. Kelengkapan komunikasi
 - 1.3. Kelengkapan elektronik pengguna
 - 1.4. Pelbagai komponen dan barangan TMK
 2. Perkhidmatan TMK
 - 2.1. Perkhidmatan pembuatan bagi kelengkapan TMK
 - 2.2. Perkhidmatan perniagaan dan produktiviti perisian dan pelesenan
 - 2.3. Perkhidmatan dan perundingan teknologi Maklumat
 - 2.4. Perkhidmatan telekomunikasi
 - 2.5. Perkhidmatan pajakan atau sewaan kelengkapan TMK
 - 2.6. Perkhidmatan TMK lain
 3. Produk kandungan dan media
 - 3.1. Cetakan dan lain-lain kandungan berasaskan teks pada media fizikal dan perkhidmatan berkaitan
 - 3.2. Kandungan wayang gambar, video, televisyen dan radio dan perkhidmatan berkaitan
 - 3.3. Kandungan muzik dan perkhidmatan berkaitan
 - 3.4. Perisian permainan
 - 3.5. Kandungan atas talian dan perkhidmatan berkaitan
 - 3.6. Lain-lain kandungan dan perkhidmatan berkaitan



5. Pandangan skematik ASTMK



6. E-dagang

Urusniaga **e-dagang** adalah penjualan atau pembelian barangan atau perkhidmatan yang dijalankan melalui rangkaian pengkomputeran/internet dengan kaedah yang direka untuk tujuan menerima atau membuat pesanan (untuk tujuan pembelian atau jualan). Urusniaga ini berlaku sama ada antara perniagaan, isi rumah, individu, kerajaan dan organisasi-organisasi awam atau swasta lain.

Kaedah pembayaran dan penghantaran muktamad barangan atau perkhidmatan urusniaga e-dagang ini boleh dijalankan melalui atau bukan melalui rangkaian pengkomputeran/internet.

Urusniaga e-dagang termasuk pesanan yang dibuat di laman web, *extranet* atau Pertukaran Data Elektronik (PDE). Walau bagaimanapun, urusniaga yang dibuat melalui panggilan telefon, faksimili, e-mel (e-mel yang ditaip manual) dan yang seumpamanya tidak dikategorikan sebagai urusniaga e-dagang.

7. E-dagang industri bukan TMK

E-dagang industri bukan TMK merupakan industri yang tidak dikategorikan di bawah klasifikasi industri TMK.

8. TMK kepada ekonomi

TMK kepada ekonomi adalah meliputi industri TMK dan e-dagang.

D. Akaun Pengeluaran Industri TMK

1. Keluaran Dalam Negeri Kasar

Keluaran Dalam Negeri Kasar (KDNK) adalah jumlah nilai barangan dan perkhidmatan yang dikeluarkan dalam tempoh tertentu selepas ditolak kos barangan dan perkhidmatan yang digunakan dalam proses pengeluaran. Nilai ini merupakan nilai sebelum ditolak nilai peruntukan bagi

modal tetap; iaitu jumlah nilai ditambah pada harga pengeluar bagi pengeluar residen ditambah dengan duti import. KDNK ini juga bersamaan dengan perbelanjaan ke atas KDNK (pada harga pembeli) iaitu jumlah bagi semua komponen perbelanjaan akhir ke atas barangan dan perkhidmatan tolak dengan import barangan dan perkhidmatan.

KDNK boleh diukur dengan menggunakan tiga kaedah iaitu Kaedah Pengeluaran, Perbelanjaan dan Pendapatan.

2. Nilai ditambah **Nilai ditambah** adalah perbezaan di antara output dan penggunaan perantaraan. Ia merupakan nilai ditambah barangan dan perkhidmatan dalam aktiviti ekonomi. Oleh itu, ia hampir menyamai dengan keuntungan perniagaan, gaji dan upah, susut nilai dan cukai tidak langsung; campur faedah yang dibayar dan tolak faedah yang diterima.

3. Nilai Ditambah Kasar Industri TMK **Nilai Ditambah Kasar Industri TMK (NDKTMK)** ialah hasil tambah Nilai Ditambah Kasar bagi semua industri TMK.

E. Akaun Penjanaan Pendapatan Industri TMK

1. Pampasan pekerja **Pampasan pekerja** merangkumi saraan dalam bentuk wang tunai atau bukan tunai, yang perlu dibayar oleh sesebuah perusahaan kepada pekerja sebagai balasan bagi kerja-kerja yang telah dilakukan dalam tempoh perakaunan.

2. Lebihan Kendalian kasar **Lebihan kendalian kasar** merujuk kepada lebihan kendalian operasi sebelum ditolak penggunaan modal tetap dan pendapatan campuran.

2.1. Lebihan kendalian Lebihan kendalian adalah mengukur lebihan atau defisit terakru daripada proses pengeluaran sebelum ditolak apa-apa caj faedah implisit atau eksplisit, sewa atau pendapatan harta lain yang dibayar ke atas aset kewangan, tanah atau lain-lain sumber semula jadi yang diperlukan untuk menjalankan pengeluaran. Secara definisi, lebihan kendalian operasi hanya boleh diperoleh oleh industri.

2.2. Pendapatan campuran Pendapatan campuran meliputi elemen ganjaran yang tidak diketahui bagi kerja yang dijalankan oleh pemilik enterpris atau ahli isi rumah, serta lebihan kendalian hasil daripada pengeluaran.



2.3. Penggunaan modal tetap didefinisikan sebagai penurunan nilai semasa stok modal tetap aset tetap yang dimiliki dan digunakan oleh pengeluar dalam tempoh perakaunan disebabkan oleh kerosakan fizikal, keusangan biasa atau kerosakan biasa yang tidak disengajakan.

3. Cukai tolak subsidi ke atas pengeluaran dan import Cukai tolak subsidi ke atas pengeluaran dan import terdiri daripada cukai ke atas produk dan cukai lain ke atas pengeluaran ditolak subsidi ke atas produk dan subsidi lain ke atas pengeluaran.

3.1. Cukai ke atas produk Cukai yang dibayar bagi satu unit barangan atau perkhidmatan dan biasanya akan dibayar apabila ia dikeluarkan, dihantar, dijual, dipindah atau sebaliknya dilupuskan oleh pihak pengeluar. Cukai tersebut mungkin merupakan satu amaun yang spesifik bagi setiap unit kuantiti barang atau perkhidmatan, atau ia mungkin dikira *ad valorem* sebagai peratusan spesifik harga satu unit atau nilai barang atau perkhidmatan yang diniagakan. Contohnya, cukai jualan, cukai eksais, duti import, duti eksport dan lain-lain.

3.2. Cukai lain ke atas pengeluaran Cukai lain ke atas pengeluaran meliputi semua cukai kecuali cukai ke atas produk yang ditanggung oleh perusahaan hasil penglibatan dalam pengeluaran seperti bayaran ke atas tanah, aset tetap atau buruh yang digunakan dalam proses pengeluaran atau untuk aktiviti atau transaksi tertentu. Contoh cukai lain ke atas pengeluaran adalah cukai yang dibayar oleh perusahaan bagi lesen perniagaan, cukai gaji, duti setem dan lain-lain.

3.3. Subsidi ke atas produk Subsidi yang dibayar bagi satu unit barang atau perkhidmatan. Subsidi ini mungkin dalam amaun spesifik bagi satu unit kuantiti barang atau perkhidmatan, atau ia mungkin dikira *ad valorem* sebagai peratusan spesifik harga satu unit barang atau perkhidmatan. Subsidi ke atas produk biasanya dibayar apabila barang atau perkhidmatan dikeluarkan, dijual atau diimport, tetapi ia juga dibayar dalam keadaan lain seperti apabila barang dipindah, dipajak, dihantar atau untuk penggunaan sendiri atau pembentukan modal sendiri.

Subsidi mungkin diberikan untuk mempengaruhi tahap pengeluaran perusahaan residen atau harga di mana output mereka dijual.

- 3.4. Subsidi lain ke atas pengeluaran Subsidi lain ke atas pengeluaran merangkumi subsidi selain daripada subsidi ke atas produk di mana perusahaan residen mungkin menerimanya hasil daripada penglibatan dalam pengeluaran seperti subsidi ke atas gaji atau tenaga kerja. Subsidi mungkin diberikan untuk mempengaruhi saraan bagi unit institusi yang terlibat dalam pengeluaran.

F. Rangka Kerja ICTSA

Asas bagi penyusunan ASTMK di Malaysia adalah rangka kerja jadual penawaran dan penggunaan (SUT). Walau bagaimanapun, ia hanya memfokuskan kepada industri dan produk TMK sahaja. Jadual penawaran mengandungi barangan dan perkhidmatan bagi produk TMK yang dikeluarkan oleh setiap pengeluar. Sementara itu, jadual penggunaan mengandungi penggunaan bagi setiap produk TMK mengikut industri, kerajaan, isi rumah dan eksport.

Penawaran bagi setiap produk (dinilai pada harga pembeli) adalah terdiri daripada:

- Pengeluaran domestik mengikut industri (dinilai pada harga asas);
- Import;
- Pengangkutan, margin perdagangan bagi borong dan runcit; dan
- Cukai tolak subsidi ke atas pengeluaran dan import.

Penggunaan bagi setiap produk (dinilai pada harga pembeli) adalah terdiri daripada:

- Penggunaan perantaraan mengikut industri (produk yang digunakan mengikut industri tersebut diproses semula bagi menghasilkan produk lain); dan
- Penggunaan akhir mengikut jenis perbelanjaan. Penggunaan akhir adalah merujuk kepada produk yang digunakan oleh isi rumah dan kerajaan, perubahan inventori dan eksport.

Jadual penggunaan terperinci mengandungi input utama yang dikeluarkan bagi setiap industri iaitu pampasan pekerja, lebihan kendalian kasar dan lain-lain cukai tolak subsidi bagi setiap produk dan pengeluaran mengikut industri.

SUT digunakan untuk mengumpul dan mengintegrasikan semua data yang diperlukan bagi menghasilkan anggaran ekonomi berkaitan TMK secara agregat. Output terdiri daripada barangan dan perkhidmatan yang dihasilkan oleh sesebuah pertubuhan yang boleh digunakan di luar



daripada pertubuhan. Nilai bagi output TMK merupakan nilai pasaran bagi barangan dan perkhidmatan TMK. Nilai ditambah dikira bagi industri TMK dan industri bukan TMK yang mengeluarkan produk TMK. Jadual berikut menunjukkan struktur asas bagi SUT.

JADUAL PENAWARAN

Penawaran mengikut produk	Output mengikut industri pada harga asas* (aktiviti ekonomi)				Import	Jumlah penawaran pada harga asas	Margin perdagangan dan pengangkutan	Cukai tolak subsidi ke atas produk	Jumlah penawaran pada harga pembeli**
	Industri A	Industri B	Industri ...	Jumlah industri (1)	(2)	(3) = (1) + (2)	(4)	(5)	(6) = (3) + (4) + (5)
Produk TMK A	Output mengikut produk dan industri				Import mengikut produk	Penawaran mengikut produk			
Produk TMK B									
Produk TMK C									
Produk TMK ...									
Jumlah penawaran (produk TMK)	Jumlah output mengikut industri				Jumlah import	Jumlah penawaran mengikut produk			

JADUAL PENGGUNAAN

Penggunaan mengikut produk	Penggunaan perantaraan mengikut industri (aktiviti ekonomi)				Perbelanjaan penggunaan akhir	Pembentukan modal kasar	Eksport	Jumlah penggunaan pada harga pembeli**
	Industri A	Industri B	Industri ...	Jumlah penggunaan perantaraan (1)	(2)	(3)	(4)	(5) = (1) + (2) + (3) + (4)
Produk TMK A	Penggunaan perantaraan mengikut produk dan industri				Penggunaan akhir mengikut produk dan jenis perbelanjaan***			
Produk TMK B								
Produk TMK C								
Produk TMK ...								
Jumlah penggunaan (produk TMK)	Jumlah penggunaan perantaraan mengikut industri				Jumlah penggunaan akhir mengikut produk dan jenis perbelanjaan***			
Pampasan pekerja	Nilai ditambah mengikut komponen dan industri							
Lebihan kendalian kasar								
Cukai tolak subsidi ke atas pengeluaran dan import								
Output industri pada harga asas*								

Nota:

* Harga asas adalah harga yang diterima oleh pengeluar bagi setiap unit barangan dan perkhidmatan yang dikeluarkan sebagai output, tidak termasuk sebarang cukai yang perlu dibayar, termasuk subsidi yang diterima ke atas setiap produk hasil daripada pengeluaran atau penjualan. Ia juga tidak termasuk sebarang bayaran penghantaran yang dicaj secara berasingan oleh pengeluar.

** Harga pembeli adalah harga yang dibayar oleh pembeli di mana barangan dan perkhidmatan tersebut dihantar pada masa dan tempat yang ditentukan oleh pembeli. Ia termasuk sebarang caj pengangkutan yang dibayar secara berasingan oleh pembeli.

*** Jenis perbelanjaan adalah merujuk kepada perbelanjaan penggunaan akhir, pembentukan modal kasar dan eksport.

G. Pengukuran e-dagang Pengukuran nilai ditambah e-dagang adalah berdasarkan manual *OECD Internet Economy Outlook 2012*. Dua kaedah pendekatan yang disarankan adalah *narrow approach* dan *broad approach*. *Narrow approach* hanya meliputi sektor Perdagangan borong dan runcit. Manakala, *broad approach* meliputi kesemua industri dalam ekonomi.

Diandaikan bahawa peratus keuntungan daripada e-dagang kepada keuntungan industri adalah berkadar dengan peratusan nilai ditambah e-dagang kepada nilai ditambah industri tersebut. *Broad approach* digunakan dalam pengukuran e-dagang di Malaysia. E-dagang terdiri daripada nilai bagi industri TMK dan industri bukan TMK.

H. Sumber Data Sumber data dalam penyusunan ASTMK adalah seperti berikut:

INDUSTRI / DATA	SUMBER DATA
Industri pembuatan TMK Industri perdagangan TMK Industri perkhidmatan TMK Aktiviti penerbitan buku, terbitan berkala dan penerbitan lain Aktiviti wayang gambar, video dan program televisyen Aktiviti rakaman bunyi dan penerbitan muzik Aktiviti pemrograman dan penyiaran Aktiviti perkhidmatan maklumat lain Industri bukan TMK	• KDNK • Banci Ekonomi • Survei Tahunan • SUT
Eksport dan import bagi barang dan perkhidmatan TMK	• Perangkaan Perdagangan Luar Negeri • Statistik Perdagangan Perkhidmatan Antarabangsa
Cukai dan subsidi	• KDNK Kaedah Pendapatan
Perbelanjaan penggunaan akhir kerajaan	• Akaun Kewangan Kerajaan Persekutuan, Kerajaan Negeri, Pihak Berkuasa Tempatan dan Badan Berkanun
Perbelanjaan penggunaan akhir swasta	• KDNK • Survei Perbelanjaan Isi Rumah
Pembentukan modal kasar	• KDNK • Pembentukan Modal Tetap Kasar
Pampasan pekerja	• KDNK Kaedah Pendapatan



INDUSTRI / DATA	SUMBER DATA
Lebihan kendalian kasar	• KDNK Kaedah Pendapatan
Guna tenaga	• Survei Tenaga Buruh Tahunan • Survei Ekonomi Tahunan • Survei Perkhidmatan Suku Tahunan • Survei Pembuatan Bulanan • Survei Perdagangan Borong dan Runcit Bulanan

I. Jadual Utama ASTMK ASTMK mempunyai sembilan (9) jadual dan penerangannya adalah seperti berikut:

Jadual 1 Industri TMK dan industri bukan TMK yang mengeluarkan produk TMK
Jadual 1 mengandungi statistik berkaitan semua industri yang mengeluarkan produk TMK. Jadual ini dijana berdasarkan SUT 2015 mengikut pengkelasan produk TMK. Bagi tahun-tahun seterusnya, data adalah berdasarkan KDNK tahunan.

Jadual 2A, 2B dan 2C Penawaran dan penggunaan produk TMK
Jadual 2A, 2B dan 2C mempersembahkan statistik penawaran dan penggunaan produk TMK. Nilai penawaran mestilah sama dengan nilai penggunaan produk TMK. Data penawaran dan penggunaan produk TMK diperoleh daripada SUT 2015. Bagi tahun-tahun seterusnya, data adalah berdasarkan KDNK tahunan. Industri dan produk dipilih berdasarkan klasifikasi ASTMK. Data penawaran produk TMK terdiri daripada pengeluaran domestik produk TMK, import produk TMK dan cukai tolak subsidi ke atas produk TMK. Data penggunaan produk TMK pula terdiri daripada penggunaan perantaraan produk TMK, penggunaan akhir oleh isi rumah dan kerajaan ke atas produk TMK, pembentukan modal kasar produk TMK dan eksport produk TMK.

Jadual 3 dan 4 Eksport dan import produk TMK
Jadual 3 dan 4 mengandungi statistik eksport dan import bagi produk TMK. Data daripada barangan diperolehi daripada perisytiharan kastam (Perangkaan Perdagangan Antarabangsa) di mana penyusunan adalah berdasarkan kod *Harmonized Commodity Description and Coding Systems* (HS). Manakala, nilai eksport dan import perkhidmatan diperolehi daripada data Perangkaan Imbangan Pembayaran. Penyusunan ini juga telah mengambil kira saranan daripada 2008 SNA serta *Balance of Payments*

and International Investment Position Manual Sixth Edition (BPM6) khususnya dalam pelaksanaan *Goods for Processing from Abroad (GFP)* dan *Manufacturing Services (MS)*.

Eksport bersih adalah salah satu pemboleh ubah penting yang digunakan untuk pengiraan KDNK. Apabila eksport bersih positif, maka ia menunjukkan lebih perdagangan dan jika negatif, ia bermaksud defisit perdagangan.

$$\text{Eksport Bersih} = \text{Nilai Eksport} - \text{Nilai Import}$$

Jadual 5 Komponen pendapatan industri TMK

Jadual 5 mengandungi statistik komponen pendapatan industri TMK yang terdiri daripada pampasan pekerja, lebih kendalian kasar dan cukai tolak subsidi ke atas pengeluaran dan import. Data ini dijana berdasarkan SUT 2015 mengikut industri TMK. Bagi tahun-tahun seterusnya, data adalah berdasarkan KDNK kaedah pendapatan tahunan.

Jadual 6 Guna tenaga dalam industri TMK

Jadual 6 merupakan statistik guna tenaga dalam industri TMK. Statistik disusun berdasarkan Survei Tenaga Buruh Tahunan, Survei Ekonomi Tahunan, Survei Perkhidmatan Suku Tahunan, Survei Pembuatan Bulanan dan Survei Perdagangan Borong & Runcit Bulanan yang dijalankan oleh Jabatan Perangkaan Malaysia.

Jadual 7A, 7B dan 7C Nilai Ditambah Kasar Industri TMK

Jadual 7A, 7B dan 7C terdiri daripada statistik Nilai Ditambah Kasar Industri TMK pada harga semasa. Pengukuran Nilai Ditambah Kasar Industri TMK adalah hasil tambah Nilai Ditambah Kasar bagi semua industri TMK. Data adalah berdasarkan KDNK tahunan.

Jadual 8A dan 8B Nilai Ditambah Kasar e-dagang

Terdapat dua jadual bagi Nilai Ditambah Kasar e-dagang. **Jadual 8A** memaparkan statistik Nilai Ditambah Kasar e-dagang mengikut industri TMK manakala **Jadual 8B** adalah Nilai Ditambah Kasar e-dagang mengikut sektor utama. Pengukuran Nilai Ditambah Kasar e-dagang adalah berdasarkan kepada *OECD Internet Economy Outlook 2012*. Data adalah berdasarkan kepada peratus pendapatan e-dagang mengikut industri yang diperolehi daripada Banci Ekonomi 2016. Bagi tahun-tahun yang lain adalah menggunakan data Penggunaan ICT dan E-Dagang (ICTEC).



Jadual 9

Sumbangan TMK kepada ekonomi

Jadual 9 adalah statistik TMK kepada ekonomi yang mana terdiri daripada Nilai Ditambah Kasar Industri TMK (**Jadual 7**) dan Nilai Ditambah Kasar e-dagang bagi industri bukan TMK (**Jadual 8A**).

J. Semakan Penerbitan dan Data

Penerbitan ini mempersembahkan ASTMK bagi tahun 2015 hingga 2023. Siri ini akan dikemaskini berdasarkan data terkini yang diperoleh.

K. Simbol

- : negatif
- .. : tidak berkenaan
- e : anggaran
- p : permulaan
- 0 : nilai kurang daripada 0.05
- % : peratus



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A. Introduction *Information and Communication Technology Satellite Account (ICTSA) of Malaysia 2023 is based on the System of National Accounts (SNA) 2008, the OECD Guide to Measuring the Information Society 2011 and the OECD Internet Economy Outlook 2012. The concepts and definitions are adapted to Malaysia's requirement.*

B. Establishment of ICTSA *The compilation of ICTSA is made possible due to the well established of System of National Accounts in Malaysia. The term "satellite account" is adopted to reflect the nature of the account developed. It is a "satellite" to the core set of National Accounts that presents additional information which is beyond the available information provided in the National Accounts.*

This satellite information focuses on a particular aspect of the economy for example contribution of ICT to the nation. It also permits further linkages to additional information specific to ICT such as income, exports, imports and employment. ICT consists of industries such as manufacturing, trade, services and content & media.

The development of satellite account is a systematic statistical measurement that applies concepts, definitions and classification which are based on international standard to enable comparison among countries. Various information available in different agencies is compiled to provide holistic and better picture of the impact of ICT industry in Malaysia.

C. Concepts and Definitions

1. ICT *Information and Communication Technology (ICT) refers to the technologies and services that enable information to be accessed, stored, processed, transformed, manipulated and disseminated, including the transmission or communication of voice, image and/or data over a variety of transmission media.*

2. ICT industry *ICT industry refers to the industries which produce ICT products as primary activities. Details of ICT industry are described in the Classification Section. The main categories of ICT industry in the compilation of ICTSA are as follows:*

1. *ICT manufacturing*
2. *ICT trade*
3. *ICT services*
4. *Content and media*

3. Non ICT industries

Non ICT industries refers to the industries other than ICT industries that produce ICT products.

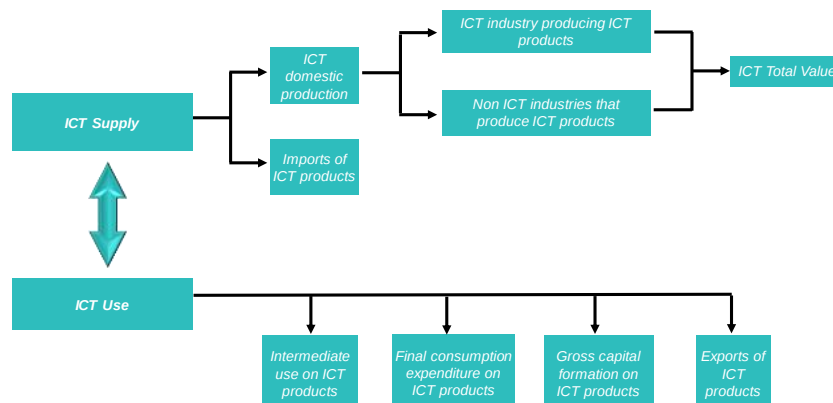
4. ICT products

The details of **ICT products** are listed in the Classification Section. The main categories of ICT products are as follows:

1. *ICT goods*
 - 1.1. *Computers and peripheral equipment*
 - 1.2. *Communication equipment*
 - 1.3. *Consumer electronic equipment*
 - 1.4. *Miscellaneous ICT components and goods*
2. *ICT services*
 - 2.1. *Manufacturing services for ICT equipment*
 - 2.2. *Business and productivity software and licensing services*
 - 2.3. *Information technology consultancy and services*
 - 2.4. *Telecommunications services*
 - 2.5. *Leasing or rental services for ICT equipment*
 - 2.6. *Other ICT services*
2. *Content and media products*
 - 3.1. *Printed and other text-based content on physical media, and related services*
 - 3.2. *Motion picture, video, television and radio content, and related services*
 - 3.3. *Music content and related services*
 - 3.4. *Games software*
 - 3.5. *On-line content and related services*
 - 3.6. *Other content and related services*



5. Schematic view of ICTSA



6. E-commerce *E-commerce transaction is the sale or purchase of goods or services, conducted over computer networks by methods specifically designed for the purpose of receiving or placing of orders. E-commerce transaction can be between enterprises, households, individuals, governments and other public or private organisations.*

Method of payment and the ultimate delivery of the e-commerce goods or services might be done through computer network/internet or traditionally.

E-commerce transactions include orders made in web pages, extranet or Electronic Data Interchange (EDI). Nevertheless, orders made by telephone calls, facsimile or manually typed e-mail are not categorised as an e-commerce transactions.

7. E-commerce of non ICT industries *E-commerce of non ICT industries is an industries that is not categorised under the ICT industry classification.*

8. ICT to economy *ICT to economy consists of ICT industry plus e-commerce of non ICT industry.*

C. Production Accounts of ICT Industry

1. Gross Domestic Product *Gross Domestic Product (GDP) is the total value of all goods and services produced in a certain period after deducting the cost of goods and services used up in the process of production. This value is before deducting the allowances for consumption of fixed capital i.e. the sum of value added of resident producer in producers' prices plus import duties. GDP is equivalent to expenditure on the GDP (in purchasers' prices) i.e. the sum of all components of final expenditure on goods and services less imports of goods and services.*

GDP can be measured by using three approaches namely Production, Expenditure and Income Approach.

- 2. Value added** *Value added* is the difference between output and intermediate consumption. It represents the added value of goods and services by economic activity. Hence, it is approximately equivalent to commercial profit, salaries and wages, depreciation and indirect taxes; plus interest paid less interest received.
- 3. Gross Value Added of ICT Industry** *Gross Value Added of ICT Industry (GVAICT)* is the sum of Gross Value Added of all ICT industry.

E. Generation Income Accounts of ICT Industry

- 1. Compensation of employees** *Compensation of employees* includes remuneration, in cash or in kind, payable by an enterprise to an employee in return for work done during the accounting period.
- 2. Gross operating surplus** *Gross operating surplus* refers the operating surplus before deducting the consumption of fixed capital and mixed income.
- 2.1. Operating surplus** *Operating surplus* refers to measures the surplus or deficit accruing from processes of production before deducting any explicit or implicit interest charges, rent or other property income payable on the financial assets, land or other natural resources required to carry on the production. By definition, operating surplus can only be earned by industries.
- 2.2. Mixed income** *Mixed income* includes an unknown element of remuneration for work done by the owner of the enterprise or other members of the household, as well as operating surplus accruing from the production.
- 2.3. Consumption of fixed capital** *Consumption of fixed capital* is defined as the decline in the current value of the stock of fixed assets owned and used by a producer during the course of the accounting period as a result of physical deterioration, normal obsolescence or nominal accidental damage.



3. Taxes less subsidies on production and imports

Taxes less subsidies on production and imports consists of taxes on products and other taxes on production less subsidies on product and other subsidies on production.

3.1. Taxes on products

Taxes that are payable per unit of some goods or services and usually become payable when they are produced, delivered, sold, transferred or otherwise disposed by their producer. The tax may be a specific amount of money per unit of quantity of a good or service, or it may be calculated ad valorem as a specified percentage of the price per unit or value of the goods or services transacted. For example, sales taxes, excise taxes, import duties, export duties, etc.

3.2. Other taxes on production

Other taxes on production consists of all taxes except taxes on products that enterprises incur as a result of engaging in production such as taxes payable on land, fixed assets or labour employed in the production process or certain activities or transactions. Examples of other taxes on production are taxes payable by enterprises for business licenses, payroll taxes, stamp duties, etc.

3.3. Subsidies on products

A subsidy payable per unit of a good or service. The subsidy may be a specific amount of money per unit of quantity of a good or service, or it may be calculated ad valorem as a specified percentage of the price per unit of the goods or services. A subsidy on products usually becomes payable when the good or service is produced, sold or imported, but it may be also payable in other circumstances such as when a good is transferred, leased, delivered or used for own consumption or own capital formation.

The subsidy may be designed to influence resident enterprises' levels of production or the prices at which their outputs are sold.

3.4. Other subsidies on production

Other subsidies on production consists of subsidies except subsidies on products that resident enterprises may receive as a consequence of engaging in production such as subsidies on payroll or workforce. The subsidy may be designed to influence the remuneration of the institutional units engaged in production.

F. Framework of ICTSA

The basis of ICTSA compilation in Malaysia is the framework of supply and use tables (SUT). However, it only focuses on ICT products and industries. The supply table indicates the goods and services of ICT

products that are supplied by each producer. Meanwhile, use table tracks the usage of those ICT products by industries, government, households and exports.

Supply of each product (valued at purchasers' prices) consists of;

- *Domestic production by industry (valued at basic prices);*
- *Imports;*
- *Transport, retail and wholesale trade margins; and*
- *Taxes less subsidies on production and imports.*

Use of each product (valued at purchasers' prices) consists of:

- *Intermediate use by industries (products that are consumed by industries in the process of producing other products); and*
- *Final use by type of expenditure. Final use includes consumption households and government, products that have been capitalised, changes in inventories and exports.*

A comprehensive use table includes primary inputs of production namely compensation of employees, gross operating surplus and other taxes less subsidies on products and production for each industry.

The SUT are used to assemble and integrate all data required to produce estimates of economic aggregates related to ICT. Output consists of those goods and services produced within an establishment which become available for use outside that establishment. The value of ICT output is the market value of ICT goods and services. Value added will be computed for ICT industry and non ICT industries which produce ICT products. The following table illustrates the basic structure of SUT.



SUPPLY TABLE

Supply of product	Output of industries at basic prices* (economic activities)				Imports	Total supply at basic prices	Trade and transport margins	Taxes less subsidies on products	Total supply at purchasers' prices**
	Industry A	Industry B	Industry ...	Total industry (1)	(2)	(3) = (1) + (2)	(4)	(5)	(6) = (3) + (4) + (5)
ICT product A	Output by product and by industry				Imports by product	Supply by product			
ICT product B									
ICT product C									
ICT product									
Total Supply (ICT product)	Total output by industry				Total imports	Total supply by product			

USE TABLE

Use of product	Intermediate use by industry (economic activities)				Final consumption expenditure	Gross capital formation	Exports	Total use at purchasers' prices**
	Industry A	Industry B	Industry ...	Total intermediate use (1)	(2)	(3)	(4)	(5) = (1) + (2) + (3) + (4)
ICT product A	Intermediate consumption by product and by industry				Final use by product and by type of expenditure***			
ICT product B								
ICT product C								
ICT product ...								
Total use (ICT product)	Total intermediate consumption by industry				Total final use by product and by type of expenditure***			
Compensation of employees	Value added by component and by industry							
Gross operating surplus								
Taxes less subsidies on production and imports								
Industry output at basic prices*								

Note:

* Basic prices is the price received by the producer for a unit of good and service produced as output, excluding any tax payable or including any subsidy receivable on the product as a subsequent of its sales or use. It also excludes any delivery charges invoiced separately by the producer.

** Purchasers' prices is the price paid by the purchaser to take delivery of a good and service at the time and place required by the purchaser. It includes any transport charges paid separately by the purchaser.

*** Type of expenditure refers to the final consumption expenditure, gross capital formation and exports.

G. Measurement of e-commerce *Measurement of e-commerce value added is based on the manual OECD Internet Economy Outlook 2012. There are two recommended approaches, which are narrow and broad approaches. Narrow approach only takes into account value added from the wholesale and retail sectors. While, broad approach includes all industries across the economy.*

It is assumed that the share of revenue from e-commerce to total revenue for each industry is proportional to the percentage of value added from e-commerce to the total value added for the same industry. Broad approach is used in measuring the e-commerce in Malaysia. E-commerce consists of the value of ICT industry and non ICT industries.

H. Data sources *The data sources in compiling ICT Satellite Account are as follows:*

INDUSTRY / DATA	DATA SOURCES
ICT manufacturing industries ICT trade industries ICT services industries Publishing of books, periodicals and other publishing activities Motion picture, video and television programme activities Sound recording and music publishing activities Programming and broadcasting activities Other information service activities Non ICT industries	• GDP • Economic Census • Annual Survey • SUT
Exports and imports of ICT goods and services	• External Trade Statistics • Statistics of International Trade in Services
Tax and subsidies	• GDP Income Approach
Government final consumption expenditure	• Financial Accounts of Federal Government, State Government, Local Authorities and Statutory Bodies
Private final consumption expenditure	• GDP • Household Expenditure Survey
Gross capital formation	• GDP • Gross Fixed Capital Formation



INDUSTRY / DATA	DATA SOURCES
Compensation of employees	• GDP Income Approach
Gross operating surplus	• GDP Income Approach
Employment	• Annual Labour Force Survey • Annual Economic Survey • Quarterly Survey of Services • Monthly Manufacturing Survey • Monthly Survey of Wholesale & Retail Trade

I. Main Tables *ICTSA comprises of nine (9) tables of each table and the explanation are as follows:*

Table 1 ***ICT industry and non ICT industries that produce ICT products***

Table 1 contains the statistics on all industries that produce ICT products. This table derived from SUT 2015 according to the ICT product classification. For the subsequent years, data is based on published Annual GDP.

Table 2A, 2B and 2C ***Supply and use of ICT products***

Table 2A, 2B and 2C present the statistics on the supply and use of ICT products. The value of supply must be equal to the value of use of ICT product. The data on the supply and use of ICT products are derived from the SUT 2015. For the subsequent years, data are based on published Annual GDP. Industry and products have been selected based on the ICTSA classification. Supply of ICT products data comprises of domestic production of ICT products, imports of ICT products and tax less subsidies on ICT products. Use of ICT products data consists of intermediate use of ICT products, final consumption expenditure of ICT products by households and governments, gross capital formation for ICT products and export of ICT products.

Table 3 and Table 4 ***Exports and imports of ICT products***

Tables 3 and 4 consists the exports and imports statistics for ICT products. Data from goods extracted from the customs declaration (International Trade Statistics) where the compilation is based on the Harmonized Commodity Description and Coding Systems (HS) code. Meanwhile, the value of the exports and imports services is derived from the balance of

payments statistics. The arrangement also took into account the recommendations by the 2008 SNA and Balance of Payments and International Investment Position Manual Sixth Edition (BPM6) particularly in implementation on treatment of Goods for Processing from Abroad (GFP) and Manufacturing Services (MS).

Net exports are one of the important variables used to calculate the GDP. When net exports are positive, it shows a trade surplus and when it is negative, it represents a trade deficit.

$$\text{Net Exports} = \text{Exports Value} - \text{Imports Value}$$

Table 5 **Income components of ICT industry**

Table 5 consists statistics on Income components of ICT industry comprises of compensation of employees, gross operating surplus and taxes less subsidies on production and imports. This statistics is derived using on SUT 2015 according to the ICT industry. For the subsequent years, data is based on published Annual GDP Income Approach.

Table 6 **Employment in the ICT industry**

Table 6 is statistics on employment data in the ICT industry. The statistics is compiled using Annual Labor Force Survey, Annual Economic Survey, Quarterly Survey of Services, Monthly Manufacturing Survey and Monthly Survey of Wholesale & Retail Trade are obtained by the Department of Statistics Malaysia.

Table 7A, 7B and 7C **Gross Value Added of ICT Industry**

Table 7A, 7B and 7C comprise the Value Added statistics of ICT Industry at current prices. The measurement of Gross Value Added of ICT Industry is the sum of Gross Value Added of all ICT industry. Statistics is obtained from published Annual GDP.

Table 8A and 8B **Gross Value Added of e-commerce**

There are two table for e-commerce. **Table 8A** are present the Gross Value Added of e-commerce by ICT industry while **Table 8B** was Gross Value Added of e-commerce by main sector. Measurement of e-commerce value added is based on the OECD Internet Economy Outlook 2012. Data are based on the percentage of e-commerce revenues by industries from the Economic Census 2016. For the subsequence years, data is based on Usage of ICT and E-Commerce (ICTEC).



Table 9 *ICT contribution to economy*

Table 9 is statistics to economy which is comprises Gross Value Added of the ICT Industry (**Table 7**) and the Gross Value Added of e-commerce by non ICT industries (**Table 8A**).

**I. Publication
and Data
Revision**

This publication presents ICTSA for the year 2015 to 2023. The series will be updated whenever any latest data available.

J. Symbols

- : negative
- .. : not applicable
- e : estimate
- p : preliminary
- 0 : value less than 0.05
- % : per cent



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**KOD DAN
KLASIFIKASI**
*CODE AND
CLASSIFICATION*



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KOD DAN KLASIFIKASI



Klasifikasi industri TMK adalah berdasarkan Piawaian Klasifikasi Industri Malaysia (MSIC) 2008 Ver.1.0 yang diselaraskan dengan *International Standard Industrial Classification of All Economic Activities (ISIC) Rev. 4*. Klasifikasi bagi produk TMK adalah berdasarkan Klasifikasi Produk Mengikut Aktiviti Malaysia (MCPA) 2009 yang diselaraskan dengan *Central Products Classification (CPC) Ver. 2*.

Industri TMK

Keterangan			ISIC Rev. 4	MSIC 2008
1. Pembuatan TMK				
1.1	Komputer dan kelengkapan peranti			
	1.1.1	Pembuatan komputer dan kelengkapan peranti	2620	26201, 26202
1.2	Komponen & papan elektronik, peralatan komunikasi dan elektronik pengguna			
	1.2.1	Pembuatan komponen dan papan elektronik	2610	26101, 26102, 26103, 26104, 26105, 26109
	1.2.2	Pembuatan peralatan komunikasi	2630	26300
	1.2.3	Pembuatan elektronik pengguna	2640	26400
	1.2.4	Pembuatan media magnetik dan optikal	2680	26800
2. Perdagangan TMK				
2.1	Perdagangan borong			
	2.1.1	Jualan borong barang sukan, barang permainan, barang kulit, barang pengembaraan dan peralatan muzik	4643	46432, 46434
	2.1.2	Jualan borong lain-lain barangan isi rumah t.t.t.l.	4649	46496
	2.1.3	Jualan borong komputer, peralatan peranti komputer (<i>peripheral</i>) dan perisian	4651	46510
	2.1.4	Jualan borong kelengkapan dan komponen (termasuk alat ganti) elektronik dan telekomunikasi	4652	46521, 46522
	2.1.5	Jualan borong lain-lain jentera dan kelengkapan	4659	46593
	2.1.6	Jualan borong bahan buangan dan sekerap dan produk lain t.t.t.l.	4669	46699
2.2	Perdagangan runcit			
	2.2.1	Jualan runcit di kedai khusus yang menjual komputer, peralatan peranti komputer (<i>peripheral</i>), sofwer dan peralatan telekomunikasi	4741	47411, 47412, 47413
	2.2.2	Jualan runcit di kedai yang khusus menjual peralatan audio dan video	4742	47420
	2.2.3	Jualan runcit di kedai khusus yang menjual peralatan elektrik, perabot, lampu dan barangan lain isi rumah	4759	47597, 47598

Keterangan			ISIC Rev. 4	MSIC 2008
	2.2.4	Jualan runcit di kedai khusus yang menjual buku, akhbar dan alat tulis	4761	47611
	2.2.5	Jualan runcit di kedai khusus yang menjual instrumen muzik dan rakaman video	4762	47620
	2.2.6	Jualan runcit di kedai khusus yang menjual permainan dan barang mainan	4764	47640
	2.2.7	Jualan runcit di kedai khusus yang menjual barang baru lain	4773	47731
	2.2.8	Jualan runcit barang terpakai	4774	47742
	2.2.9	Jualan runcit barangan lain di gerai dan pasar	4789	47892, 47893, 47894, 47895
	2.2.10	Jualan runcit melalui pesanan mel atau internet	4791	47911, 47912, 47913, 47914
	2.2.11	Lain-lain jualan bukan di kedai, gerai atau pasar	4799	47992
3. Perkhidmatan TMK				
3.1	Telekomunikasi			
	3.1.1	Aktiviti telekomunikasi berwayar	6110	61101, 61102
	3.1.2	Aktiviti telekomunikasi tanpa wayar	6120	61201, 61202
	3.1.3	Aktiviti telekomunikasi satelit	6130	61300
	3.1.4	Aktiviti telekomunikasi lain	6190	61901, 61902, 61903, 61904, 61905, 61909
3.2	Pengaturcaraan komputer, perundingan, maklumat dan aktiviti yang berkaitan			
	3.2.1	Aktiviti pengaturcaraan komputer	6201	62010
	3.2.2	Aktiviti perundingan komputer dan pengurusan kemudahan komputer	6202	62021, 62022
	3.2.3	Aktiviti perkhidmatan teknologi maklumat dan komputer lain	6209	62091, 62099
	3.2.4	Aktiviti proses data, <i>hosting</i> dan yang berkaitan	6311	63111, 63112
	3.2.5	Web portal	6312	63120
3.3	Perkhidmatan TMK lain			
	3.3.1	Pembaikan mesin	3312	33120
	3.3.2	Pembaikan peralatan elektronik dan optikal	3313	33131, 33133
	3.3.3	Pembaikan bagi peralatan elektrik	3314	33140
	3.3.4	Pemasangan bagi perindustrian mesin dan kelengkapan	3320	33200



Keterangan			ISIC Rev. 4	MSIC 2008
	3.3.5	Pemasangan elektrik	4321	43212, 43213, 43214, 43216
	3.3.6	Pemasangan sistem paip, pemanasan dan pendinginan udara	4322	43223
	3.3.7	Penerbitan perisian yang sedia cipta (bukan tempahan khas)	5820	58201, 58202, 58203
	3.3.8	Penyelidikan dan pembangunan eksperimen sains semula jadi dan kejuruteraan	7210	72106
	3.3.9	Aktiviti profesional, saintifik dan teknikal lain t.t.t.l.	7490	74903
	3.3.10	Aktiviti perkhidmatan sistem keselamatan	8020	80200
	3.3.11	Aktiviti perkhidmatan awam am	8411	84111, 84112
	3.3.12	Pembaikan komputer dan peralatan sampingan	9511	95111, 95112, 95113
	3.3.13	Pembaikan dan penyelenggaraan peralatan komunikasi	9512	95121, 95122, 95123, 95124, 95125, 95126, 95127
	3.3.14	Pembaikan peralatan elektronik pengguna	9521	95211, 95212, 95213, 95214
	3.3.15	Pembaikan kelengkapan isi rumah dan peralatan rumah dan halaman	9522	95221
4. Kandungan dan media				
4.1	Aktiviti penerbitan buku, terbitan berkala dan penerbitan lain		1811, 1812, 1820, 5811, 5812, 5813, 5819, 8219	18110, 18120, 18200, 58110, 58120, 58130, 58190, 82196, 82199
4.2	Aktiviti wayang gambar, video dan program televisyen		5911, 5912, 5913, 5914, 7410, 7420, 9000	59110, 59120, 59130, 59140, 74102, 74200, 90009
4.3	Kandungan dan media lain			
	4.3.1	Aktiviti rakaman bunyi dan penerbitan muzik	5920	59200
	4.3.2	Aktiviti pemrograman dan penyiaran	6010, 6020	60100, 60200
	4.3.3	Aktiviti perkhidmatan maklumat lain	6391, 6399, 8220, 9329	63910, 63990, 82200, 93297

Produk TMK

Keterangan		CPC Ver. 2	MCPA 2009 (5 Digit)
1. Barangan TMK			
1.1	Komputer dan kelengkapan peranti	45142, 45221, 45222, 45230, 45240, 45250, 45261, 45262, 45263, 45264, 45265, 45266, 45269, 45271, 45272, 45289, 45290, 47315, 47550	26201, 26202, 28170
1.2	Kelengkapan komunikasi	46921, 47211, 47212, 47213, 47221, 47222, 47223, 47401, 54612, 54613	26300, 43216
1.3	Kelengkapan elektronik pengguna	38581, 47214, 47215, 47311, 47312, 47313, 47314, 47321, 47323, 47330, 47402, 48321, 48322, 48323, 48324, 48330, 48353, 88748	26400, 26701, 26702, 32400
1.4	Pelbagai komponen dan barangan TMK	45281, 47130, 47140, 47150, 47160, 47173, 47403, 47530, 47540, 47590, 47910, 47920, 48220, 48244, 48315, 48354	26101, 26102, 26104, 26105, 26109, 26511, 26800, 32909
2. Perkhidmatan TMK			
2.1	Perkhidmatan pembuatan bagi kelengkapan TMK	88741, 88742, 88743, 88744, 88749	26103
2.2	Perkhidmatan perniagaan dan produktiviti perisian dan pelesenan	47811, 47812, 47813, 47814, 47821, 47829, 73311, 81129, 83143, 84341, 84342, 84392, 85220, 85230	58201, 58203, 72106, 74903, 80200
2.3	Perkhidmatan dan perundingan teknologi maklumat	83117, 83131, 83132, 83141, 83142, 83151, 83152, 83159, 83161, 83162	62010, 62021, 62022, 63111, 63112, 70201
2.4	Perkhidmatan telekomunikasi	84110, 84121, 84122, 84131, 84132, 84140, 84150, 84190, 84210, 84221, 84222, 84290, 85931, 85939	61101, 61201, 61300, 61901, 61902, 61903, 61904, 61905, 61909, 82200
2.5	Perkhidmatan pajakan atau sewaan kelengkapan TMK	73124, 73210, 73215	77292, 77301, 77307
2.6	Perkhidmatan TMK lain	54614, 83325, 87120, 87130, 87151, 87152, 87153, 87155, 87331, 87332, 87340, 87350	33120, 33140, 33200, 43213, 43214, 62099, 71102, 95111, 95112, 95113, 95121, 95122, 95123, 95124, 95125, 95126, 95127, 95211, 95212, 95213, 95214, 95221
3. Produk kandungan dan media			
3.1	Cetakan dan lain-lain kandungan berasaskan teks pada media fizikal dan perkhidmatan berkaitan	32210, 32220, 32230, 32291, 32292, 32299, 32300, 32410, 32420, 32490, 32511, 32530, 32540, 32620, 32630, 32690, 32800, 47691, 47692, 83631, 84311, 85951, 89121	18110, 18120, 58110, 58120, 58130, 58190, 82196, 82199



Keterangan		CPC Ver. 2	MCPA 2009 (5 Digit)
3.2	Kandungan wayang gambar, video, televisyen dan radio dan perkhidmatan berkaitan	38950, 47620, 83632, 83919, 84611, 84612, 84621, 84622, 84631, 84632, 84633, 84634, 96121, 96122, 96123, 96131, 96132, 96133, 96134, 96135, 96136, 96137, 96139, 96140, 96150	59110, 59120, 59130, 59140, 60100, 60200, 74102
3.3	Kandungan muzik dan perkhidmatan berkaitan	32520, 47610, 89123, 96111, 96112, 96113	18200, 59200
3.4	Perisian permainan	38582, 47822, 84391	58202
3.5	Kandungan atas talian dan perkhidmatan berkaitan	73312, 83633, 84311, 84312, 84313, 84321, 84322, 84331, 84332, 84393, 84394, 84399	63120
3.6	Lain-lain kandungan dan perkhidmatan berkaitan	38941, 38942, 47699, 73320, 83611, 83620, 83639, 83811, 83812, 83813, 83814, 83815, 83819, 83820, 83940, 84410, 84420, 85991, 89110, 96330	63910, 63990, 73100, 74200, 90001, 90002, 90003, 90004, 90005, 90006, 90007, 90009

CODE AND CLASSIFICATION



The classification of ICT industry is based on Malaysia Standard Industrial Classification (MSIC) 2008 Ver.1.0. which is in concordance with International Standard Industrial Classification of All Economic Activities (ISIC) Rev. 4. The classification of ICT products is based on Malaysian Classification of Products by Activity (MCPA) 2009 which conforms with Central Products Classification (CPC) Ver. 2.

ICT industry

Description			ISIC Rev. 4	MSIC 2008
1. ICT manufacturing				
1.1	Computers and peripheral equipment			
	1.1.1	Manufacture of computers and peripheral equipment	2620	26201, 26202
1.2	Electronic components & boards, communication equipment and consumer electronics			
	1.2.1	Manufacture of electronic components and boards	2610	26101, 26102, 26103, 26104, 26105, 26109
	1.2.2	Manufacture of communication equipment	2630	26300
	1.2.3	Manufacture of consumer electronics	2640	26400
	1.2.4	Manufacture of magnetic and optical media	2680	26800
2. ICT trade				
2.1	Wholesale trade			
	2.1.1	Wholesale of sports goods, games, leather, travelling goods and musical instruments	4643	46432, 46434
	2.1.2	Wholesale of other household goods n.e.c.	4649	46496
	2.1.3	Wholesale of computers, computer peripheral equipment and software	4651	46510
	2.1.4	Wholesale of electronic and telecommunications equipment and parts	4652	46521, 46522
	2.1.5	Wholesale of other machinery and equipment	4659	46593
	2.1.6	Wholesale of waste and scrap and other products n.e.c.	4669	46699
2.2	Retail trade			
	2.2.1	Retail sale of computers, peripheral units, software and telecommunications equipment in specialized stores	4741	47411, 47412, 47413
	2.2.2	Retail sale of audio and video equipment in specialized stores	4742	47420
	2.2.3	Retail sale of electrical household appliances, furniture, lighting equipment and other household articles in specialized stores	4759	47597, 47598
	2.2.4	Retail sale of books, newspapers and stationary in specialized stores	4761	47611



Description			ISIC Rev. 4	MSIC 2008
	2.2.5	Retail sale of music and video recordings in specialized stores	4762	47620
	2.2.6	Retail sale of games and toys in specialized stores	4764	47640
	2.2.7	Other retail sale of new goods in specialized stores	4773	47731
	2.2.8	Retail sale of second-hand goods	4774	47742
	2.2.9	Retail sale via stall and market of other goods	4789	47892, 47893, 47894, 47895
	2.2.10	Retail sale via mail order houses or via Internet	4791	47911, 47912, 47913, 47914
	2.2.11	Other retail sale not in stores, stalls or markets	4799	47992
3. ICT services				
3.1	Telecommunications			
	3.1.1	Wired telecommunications activities	6110	61101, 61102
	3.1.2	Wireless telecommunications activities	6120	61201, 61202
	3.1.3	Satellite telecommunications activities	6130	61300
	3.1.4	Other telecommunications activities	6190	61901, 61902, 61903, 61904, 61905, 61909
3.2	Computer programming, consultancy, information and related activities			
	3.2.1	Computer programming activities	6201	62010
	3.2.2	Computer consultancy and computer facilities management activities	6202	62021, 62022
	3.2.3	Other information technology and computer service activities	6209	62091, 62099
	3.2.4	Data processing, hosting and related activities	6311	63111, 63112
	3.2.5	Web portals	6312	63120
3.3	Other ICT services			
	3.3.1	Repair of machinery	3312	33120
	3.3.2	Repair of electronic and optical equipment	3313	33131, 33133
	3.3.3	Repair of electrical equipment	3314	33140
	3.3.4	Installation of industrial machinery and equipment	3320	33200
	3.3.5	Electrical installation	4321	43212, 43213, 43214, 43216
	3.3.6	Plumbing, heat and air-conditioning installation	4322	43223
	3.3.7	Publishing of ready-made (non-customized) software	5820	58201, 58202, 58203
	3.3.8	Research and experimental development on natural sciences and engineering	7210	72106

Description			ISIC Rev. 4	MSIC 2008
	3.3.9	Other professional, scientific and technical activities n.e.c.	7490	74903
	3.3.10	Security systems service activities	8020	80200
	3.3.11	General public administration activities	8411	84111, 84112
	3.3.12	Repair of computers and peripheral equipment	9511	95111, 95112, 95113
	3.3.13	Repair of communication equipment	9512	95121, 95122, 95123, 95124, 95125, 95126, 95127
	3.3.14	Repair of consumer electronics	9521	95211, 95212, 95213, 95214
	3.3.15	Repair of household appliances and home and garden equipment	9522	95221
4. Content and media				
4.1	Publishing of books, periodicals and other publishing activities		1811, 1812, 1820, 5811, 5812, 5813, 5819, 8219	18110, 18120, 18200, 58110, 58120, 58130, 58190, 82196, 82199
4.2	Motion picture, video and television programme activities		5911, 5912, 5913, 5914, 7410, 7420, 9000	59110, 59120, 59130, 59140, 74102, 74200, 90009
4.3	Other content and media			
	4.3.1	Sound recording and music publishing activities	5920	59200
	4.3.2	Programming and broadcasting activities	6010, 6020	60100, 60200
	4.3.3	Other information service activities	6391, 6399, 8220, 9329	63910, 63990, 82200, 93297



ICT products

Description		CPC Ver. 2	MCPA 2009 (5 Digit)
1. ICT goods			
1.1	Computers and peripheral equipment	45142, 45221, 45222, 45230, 45240, 45250, 45261, 45262, 45263, 45264, 45265, 45266, 45269, 45271, 45272, 45289, 45290, 47315, 47550	26201, 26202, 28170
1.2	Communication equipment	46921, 47211, 47212, 47213, 47221, 47222, 47223, 47401, 54612, 54613	26300, 43216
1.3	Consumer electronic equipment	38581, 47214, 47215, 47311, 47312, 47313, 47314, 47321, 47323, 47330, 47402, 48321, 48322, 48323, 48324, 48330, 48353, 88748	26400, 26701, 26702, 32400
1.4	Miscellaneous ICT components and goods	45281, 47130, 47140, 47150, 47160, 47173, 47403, 47530, 47540, 47590, 47910, 47920, 48315, 48354, 48220, 48244	26101, 26102, 26104, 26105, 26109, 26511, 26800, 32909
2. ICT services			
2.1	Manufacturing services for ICT equipment	88741, 88742, 88743, 88744, 88749	26103
2.2	Business and productivity software and licensing services	47811, 47812, 47813, 47814, 47821, 47829, 73311, 81129, 83143, 84341, 84342, 84392, 85220, 85230	58201, 58203, 72106, 74903, 80200
2.3	Information technology consultancy and services	83117, 83131, 83132, 83141, 83142, 83151, 83152, 83159, 83161, 83162	62010, 62021, 62022, 63111, 63112, 70201
2.4	Telecommunications services	84110, 84121, 84122, 84131, 84132, 84140, 84150, 84190, 84210, 84221, 84222, 84290, 85931, 85939	61101, 61201, 61300, 61901, 61902, 61903, 61904, 61905, 61909, 82200
2.5	Leasing or rental services for ICT equipment	73124, 73210, 73215	77292, 77301, 77307
2.6	Other ICT services	54614, 83325, 87120, 87130, 87151, 87152, 87153, 87155, 87331, 87332, 87340, 87350	33120, 33140, 33200, 43213, 43214, 62099, 71102, 95111, 95112, 95113, 95121, 95122, 95123, 95124, 95125, 95126, 95127, 95211, 95212, 95213, 95214, 95221
3. Content and media products			
3.1	Printed and other text-based content on physical media, and related services	32210, 32220, 32230, 32291, 32292, 32299, 32300, 32410, 32420, 32490, 32511, 32530, 32540, 32620, 32630, 32690, 32800, 47691, 47692, 83631, 84311, 85951, 89121	18110, 18120, 58110, 58120, 58130, 58190, 82196, 82199

Description		CPC Ver. 2	MCPA 2009 (5 Digit)
3.2	<i>Motion picture, video, television and radio content, and related services</i>	38950, 47620, 83632, 83919, 84611, 84612, 84621, 84622, 84631, 84632, 84633, 84634, 96121, 96122, 96123, 96131, 96132, 96133, 96134, 96135, 96136, 96137, 96139, 96140, 96150	59110, 59120, 59130, 59140, 60100, 60200, 74102
3.3	<i>Music content and related services</i>	32520, 47610, 89123, 96111, 96112, 96113	18200, 59200
3.4	<i>Games software</i>	38582, 47822, 84391	58202
3.5	<i>On-line content and related services</i>	73312, 83633, 84311, 84312, 84313, 84321, 84322, 84331, 84332, 84393, 84394, 84399	63120
3.6	<i>Other content and related services</i>	38941, 38942, 47699, 73320, 83611, 83620, 83639, 83811, 83812, 83813, 83814, 83815, 83819, 83820, 83940, 84410, 84420, 85991, 89110, 96330	63910, 63990, 73100, 74200, 90001, 90002, 90003, 90004, 90005, 90006, 90007, 90009



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