



TECHNICAL MISSION ON GOVERNMENT FINANCE STATISTICS



GOVERNMENT STATISTICS IN MALAYSIA'S NATIONAL ACCOUNTS

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BANDAR SERI BEGAWAN, BRUNEI



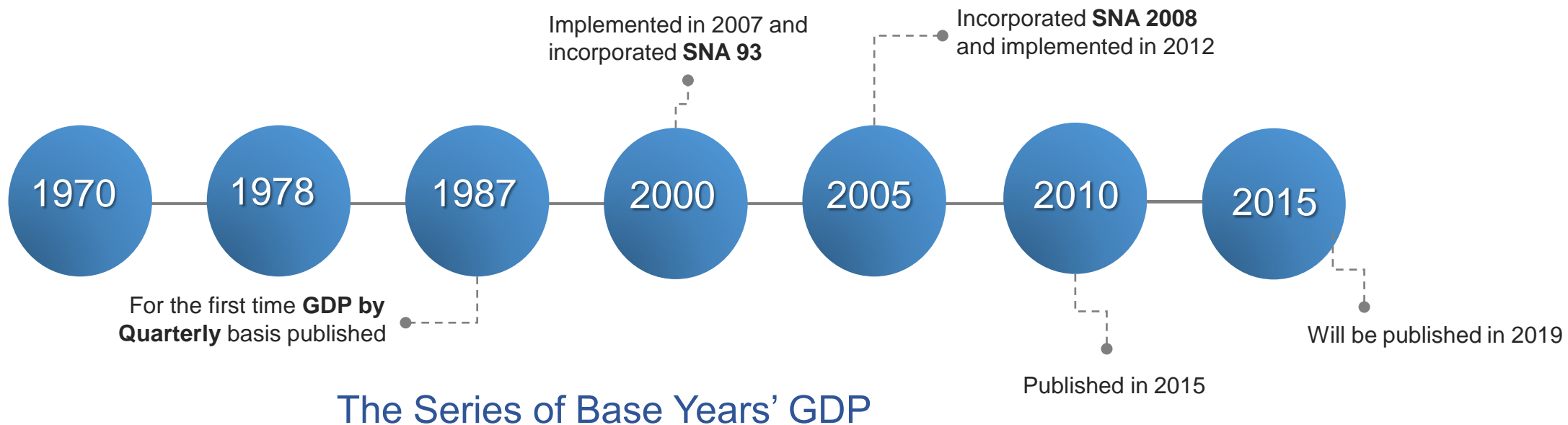
Department of Statistics, Malaysia is responsible for the compilation and production of National Accounts Statistics especially:

- ✓ Quarterly & Annual Gross Domestic Product (GDP)
- ✓ Other National Accounts statistics i.e. Gross National Income, Gross National Income per capita, Final Consumption, Gross National Saving and other economic variables
- ✓ Other main statistics relate to System of National Accounts such as SMEs GDP, Gross Fixed Capital Formation, Regional GDP, Tourism Satellite Accounts, Capital Stocks, Sequence of Accounts and Social Accounting Matrices

FOR => indicators of national socioeconomic condition and for the formulation of national development planning

Compilation of National Accounts Statistics

- Compilation of **GDP at current** price begins from year 1947
- Compilation of **GDP at constant** price started with series 1970
- **GDP for base year of 2015** was published in **May 2019**



THREE APPROACHES OF COMPILING GDP

Production Approach

Measures the sum of the VA created through the production of goods and services within the economy.

Expenditure Approach

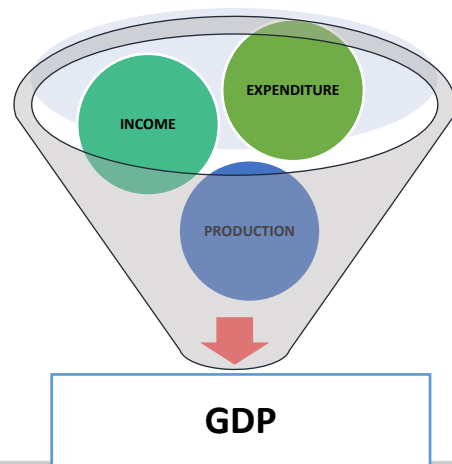
- + Final Private Consumption
- + Gov. Final Consumption
- + GFCF
- + Changes in Inventories
- + Export – Import

Measures total **expenditures on all finished goods and services** produced within the economy.

Income Approach

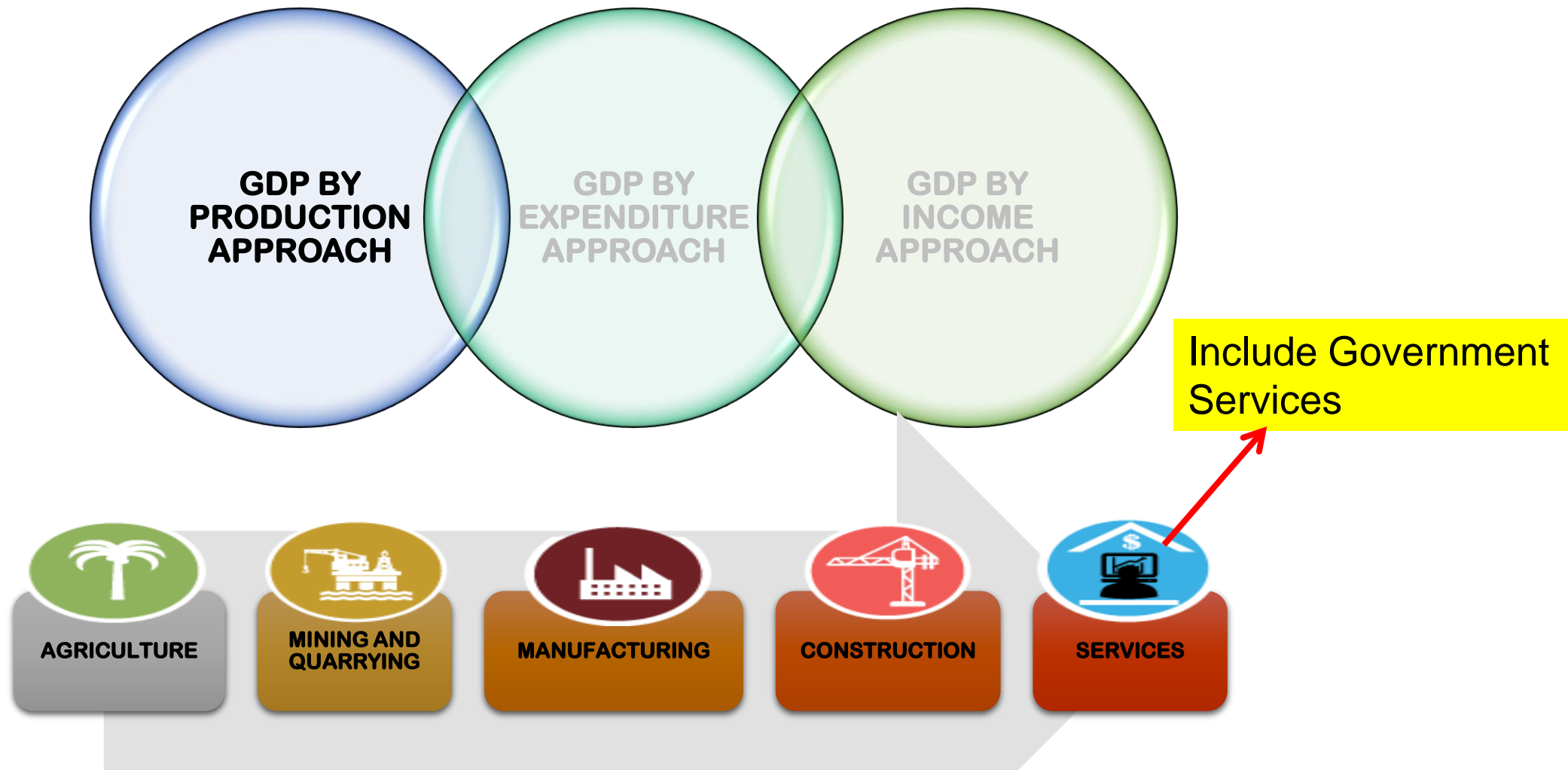
- + Compensation of employees
- + Operating Surplus
- + Mixed Income
- + (Taxes – Subsidies)

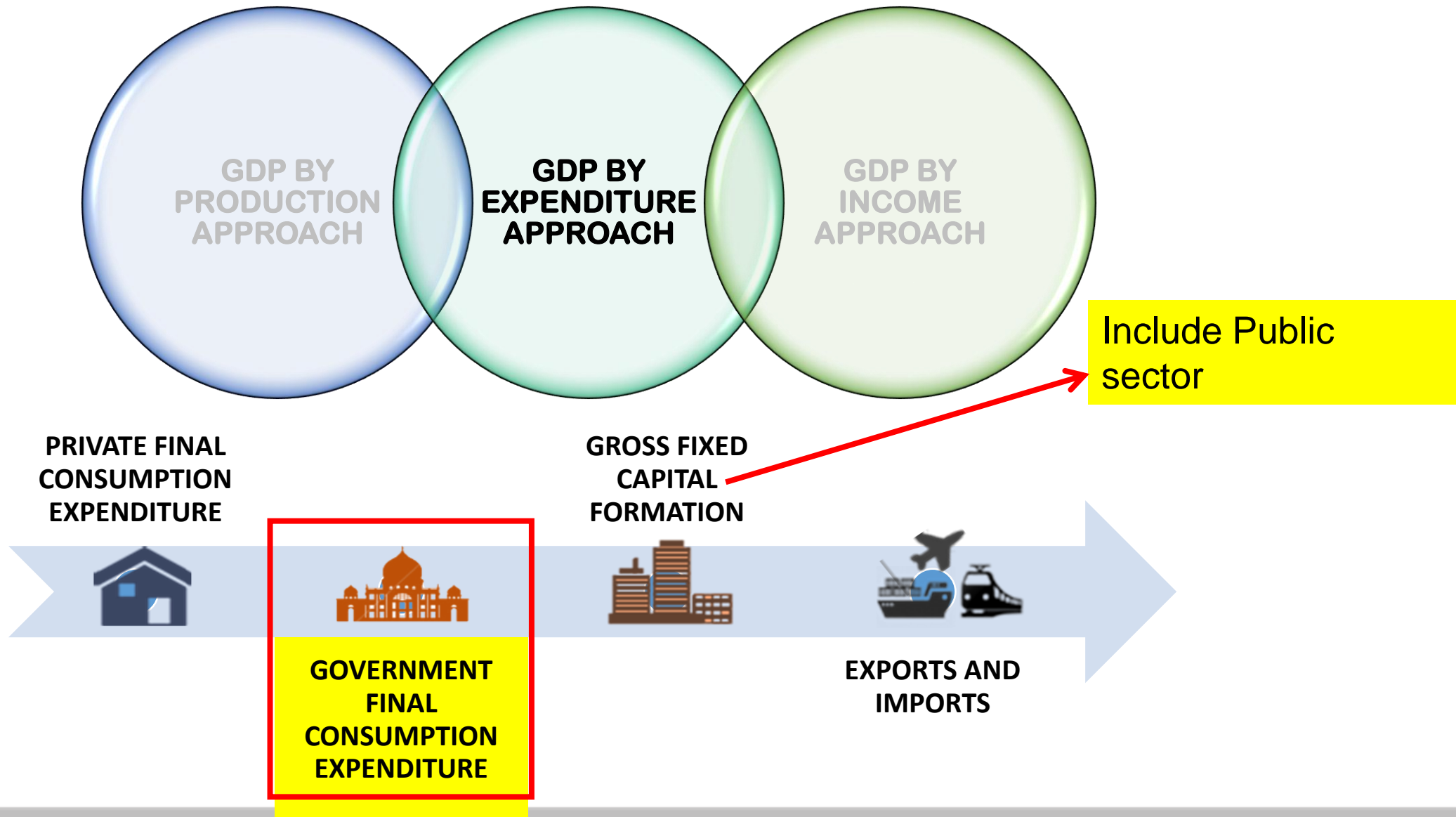
Measures total **income generated by the production of goods and services** within the economy.



Measures the value of all goods and services produced in the country.

The Gross Domestic Product (GDP) is one of the primary indicators used to gauge the health of a country's economy.





GENERAL CONCEPT:

- The Government Value Added (GVA) and Government Consumption (GC) are compiled based on the concepts and methodology outlined in the System of National Accounts.
- General Government is government departments, offices and other bodies engaged in administration, defense and regulation of the public order, promotion on economic growth and welfare and technological development, provision of education, health, cultural, recreational and other social and community services free of charge or at sales prices which do not fully cover their costs of production.

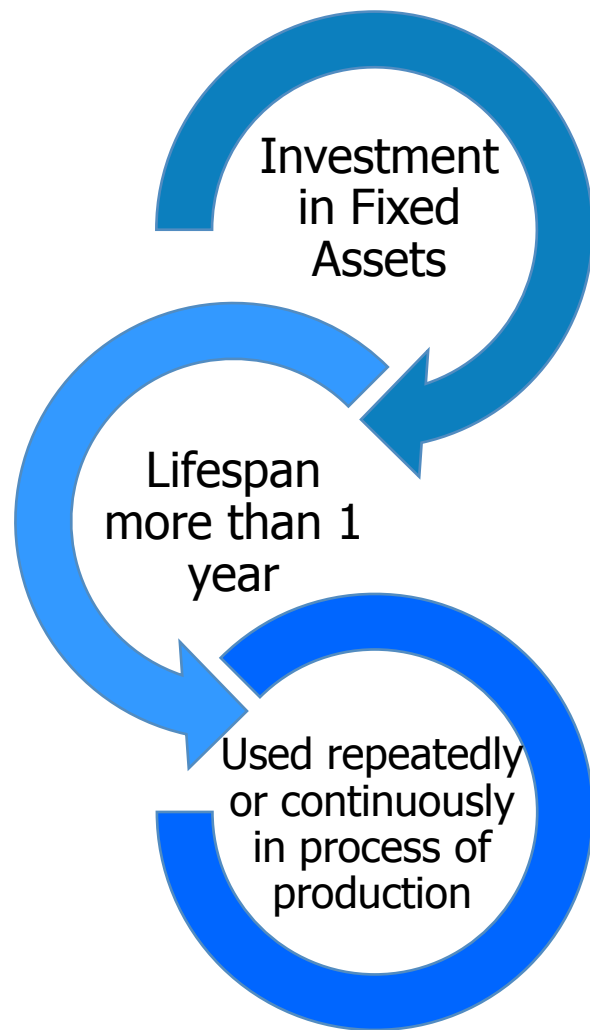
FOUR (4) LEVELS OF GOVERNMENT:

Federal Government

State Governments

Statutory Bodies

Local Authorities



Σ value of resident producer's **ACQUISITIONS**, **less DISPOSALS**, of **fixed assets** during the accounting period



ADDITIONS TO THE VALUE of **non-produced assets** realised by the productive activity of institutional units



MAJOR IMPROVEMENT AND RENOVATION to existing produced assets that extend the lives of assets and increasing its productivity

GFCF by Type Of Assets

- Commonly classified by type of assets i.e. **structure, machinery & equipment and other assets.** There is substantial diversity in the different types of gross fixed capital formation that may take place.
- Base on the classification of fixed assets **recommended by 2008 SNA**

GFCF by Sector

- GFCF is classified by assets **ownerships**, whether the asset is belong to public or private sector.
- The Public and Private sectors provides a standard for the compilation of statistics that divide the resident economy into broad economic sector depending whether or not they **are controlled by government. 8 criteria to be considered as control:**
 - Ownership of the majority of the voting interest;*
 - Control of the board or other governing body;*
 - Control of the appointment and removal of key personnel;*
 - Control of key committees of the entity;*
 - Golden share and options;*
 - Regulation and control;*
 - Control by dominant customers; and*
 - Control attached to borrowing from the government*

GFCF by Kind Of Economic Activities

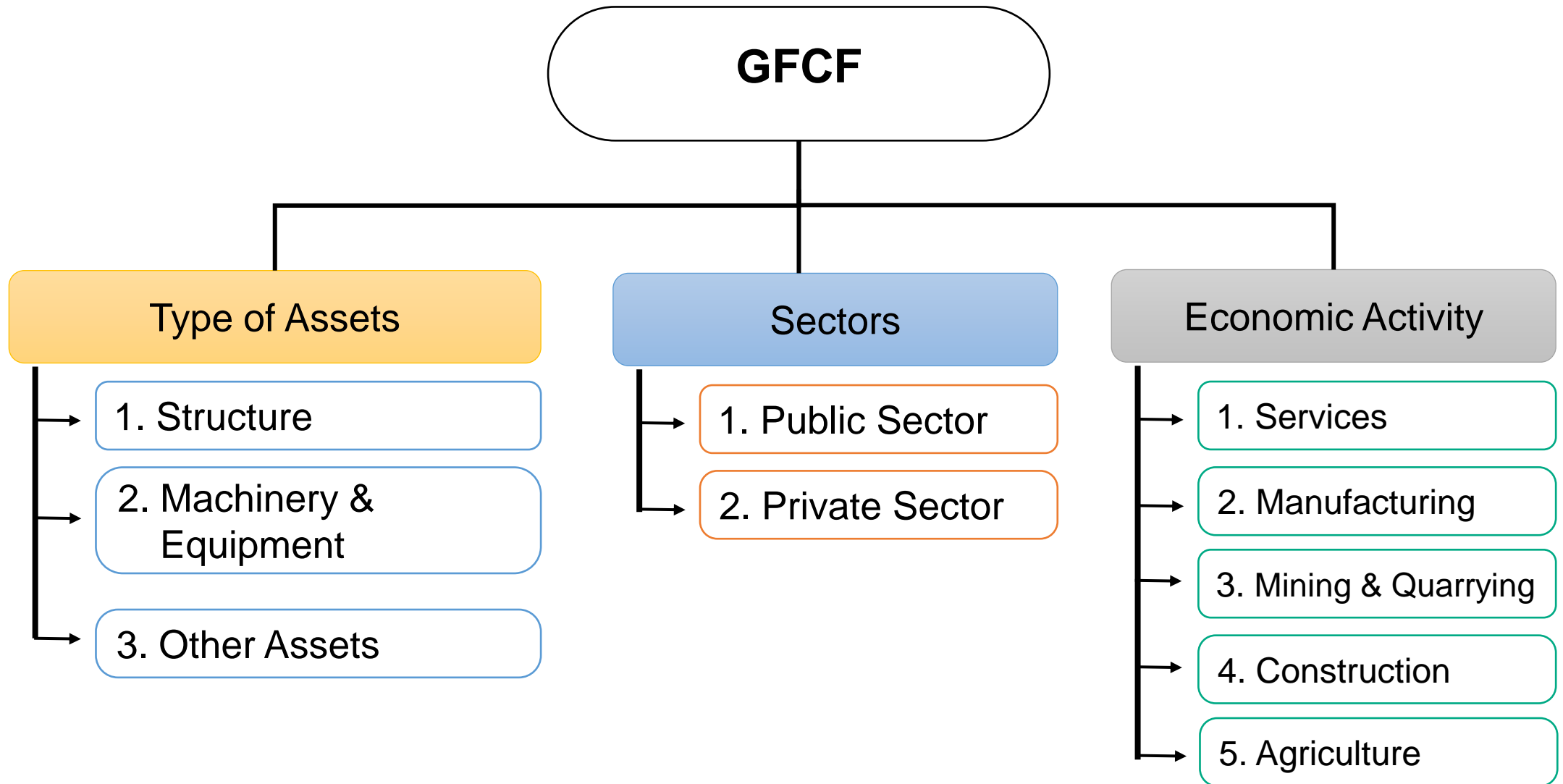
- These statistics refers to the establishment's **principal activity.**
- The principal activities of establishments are grouped into **industries according to the MSIC 2008 Ver. 1.0** which is aligned with the ISIC Revision 4.

GFCF By Type of Assets

TYPE OF ASSETS	DESCRIPTION
Structure	<i>Residential buildings</i>
	<i>Non-residential buildings</i>
	<i>Other construction</i>
Transport Equipment	<i>Aircraft, ship, train, locomotive, commercial vehicle, passenger car, etc.</i>
ICT equipment and Other Machinery & Equipment	<i>Other machinery & equipment</i>
	<i>ICT equipment</i>
Intellectual Property Products	<i>Computer software & database</i>
	<i>Entertainment, literary & artistic original</i>
	<i>Research & development</i>
	<i>Mineral exploration & evaluation</i>

TYPE OF ASSETS	DESCRIPTION
Cultivated Biological Assets	<i>Livestock yields repeated production such as animal purposely used for breeding, transportation or entertainment</i>
	<i>Trees, crops and planted resources yields repeated production i.e. oil palm, rubber and fruit trees</i>
Others	<i>Others that are not elsewhere classified</i>

Sectors	Description	Data Sources
<ul style="list-style-type: none"> • Public Sector 	<p><i>The public sector comprises all government units and all institutional units and notional institutional units controlled directly or indirectly by government.</i></p> <p><i>I. General Government</i></p> <ul style="list-style-type: none"> <i>a. Federal Government</i> <i>b. States Government</i> <i>c. Local Authorities</i> <i>d. Statutory bodies</i> <p><i>II. Public Corporation</i></p> <ul style="list-style-type: none"> <i>a. Non Financial Public Enterprises (NFPEs)</i> <i>b. Financial Public Enterprises (FPEs)</i> 	<ul style="list-style-type: none"> • Government Administrative data • Public Corporation Survey • Annual/Biennial Survey • Economic Censuses • Annual Companies Financial Statements • Balance of Payment • Monthly External Trade Data • Quarterly Construction Survey



Data Sources: GFCF by Type of Assets

Type of Assets	Description	Data Sources
Structure	<ul style="list-style-type: none"> • Residential Buildings, Non-residential Building, Floating Structure and Other Construction i.e. Road, Dam and etc. • Cost of ownership transfer 	<ul style="list-style-type: none"> • Supply & Use Tables 2010 • Quarterly Construction Survey • NAPIC • Legal Services • Real Estates • Loan Disbursed on properties
Transport Equipment ICT and Other Machinery & Equipment	<ul style="list-style-type: none"> • Aircraft, ships, train and locomotive, commercial vehicle, passenger car and etc • ICT Equipment such as computer hardware, telecommunication equipment and etc. • Other Machinery & Equipment consist of general industrial machinery, special purpose machinery, medical appliances, . 	<ul style="list-style-type: none"> • Supply & Use Tables 2010 • Monthly Manufacturing Survey • Monthly External Trade Data • Balance of Payment Statistics
• Cultivated Biological Assets	<ul style="list-style-type: none"> • Covers livestock yielding repeat product such as animal purposely use for breeding, transportation or entertainment. • It's also covers tree, crop and plant resources yielding repeat products i.e. oil palm, rubber and fruit trees. 	<ul style="list-style-type: none"> • Supply & Use Tables 2010 • Immature Area from various agencies • Agriculture Sector • Monthly External Trade Data

Data Sources: GFCF by Type of Assets

Type of Assets	Description	Data Sources
<ul style="list-style-type: none"> • Intellectual Property Products 	<ul style="list-style-type: none"> • <i>Intellectual Property Products cover computer software and database, entertainment, literary and artistic original, research and development (R&D) expenditure and mineral exploration.</i> 	<ul style="list-style-type: none"> • Supply & Use Tables 2010 • Survey on R&D according to FM • Information on R&D expenditure • Annual Census of Petroleum and Natural Gas Establishments • Statistics on Films and Drama from FINAS • Information on Royalty payment from RIM • Computer Services Industries • Balance of Payment Statistics • Information of Oil & Gas Investment • Numbers of Patent & Industrial Designed Statistics by MyIPO
<ul style="list-style-type: none"> • Other Assets 	<ul style="list-style-type: none"> • <i>Other Assets includes weapons systems, cost of ownership transfer for land and others that are not classified elsewhere.</i> 	<ul style="list-style-type: none"> • Supply & Use Tables 2010 • Final External Trade Data • Annual Manufacturing Survey • Government Expenditure on Assets • NAPIC

Kind of Economic Activities	Main Data Sources	Other Data Sources	Remarks
Agriculture	<ul style="list-style-type: none"> • Supply & Use Tables 2010 • Economic Census • Survey of Capital Expenditure for Public Establishments • Companies annual report & financial statements 	<ul style="list-style-type: none"> • Malaysian Palm Oil Board • Malaysian Rubber Board • Malaysian Pineapple Industry Board • Malaysian Cocoa Board • Malaysian Pepper Board • Ministry of Agriculture & Agro-Based Industry, Malaysia • Department of Veterinary Services. 	<ul style="list-style-type: none"> • Cost Development on perennial crops • Number of licensed fishing vessels by state and tonnage class. • Number and area of freshwater ponds and cage • Population of breeding stock • CAPEX on Cocoa Estate Establishment
Mining & Quarrying	<ul style="list-style-type: none"> • Supply & Use Tables 2010 • Economic Census • Survey of Capital Expenditure for Public Establishments • Companies annual report & financial statements 	<ul style="list-style-type: none"> • External Trade & BOP • Annual Report on Establishment of Oil & Gas Service provider • Quarterly survey 	<ul style="list-style-type: none"> • Import of Floating Structure • Number of oil wells
Manufacturing	<ul style="list-style-type: none"> • Supply & Use Tables 2010 • Economic Census and Annual Surveys • Survey of Capital Expenditure for Public Establishments • Companies annual report & financial statements 	<ul style="list-style-type: none"> • Manufacturing Projects Approved And Implemented ,MIDA • External Trade • Quarterly Construction Survey 	<ul style="list-style-type: none"> • Capital investment by sub-sectors • Import of Machinery & Equipment by details

Data Sources: GFCF by Economic Activity



Kind of Economic Activities	Main Data Sources	Other Data Sources	Remarks
Construction	<ul style="list-style-type: none"> • Supply & Use Tables 2010 • Economic Census and Annual Surveys • Survey of Capital Expenditure for Public Establishments • Companies annual report & financial statements 	<ul style="list-style-type: none"> • Annual Report of Top Construction Companies • External Trade • Quarterly Construction Survey 	<ul style="list-style-type: none"> • Import of Machinery & Equipment related to Construction Sectors
Services	<ul style="list-style-type: none"> • Supply & Use Tables 2010 • Economic Census and Annual Surveys • Survey of Capital Expenditure for Public Establishments • Government Account • Companies annual report & financial statements 	<ul style="list-style-type: none"> • Annual /Quarterly Report of selected establishments • External Trade • Quarterly Construction Survey • NAPIC • SPAN • KPDNHEP • Ministry of Transport (MOT) • MAA • FINAS, RIM & MACP • BNM • LLM 	<ul style="list-style-type: none"> • Property, Plant & Equipment • Import of Transport Equipment (Aircraft, Vessel, C etc.) • Import of Machinery & Equipment (Generator) • Cost of Film production • Total Fixed Assets of Financial Corporation • Numbers of new hotel, commercial buildings • Government CAPEX • Numbers of Highways

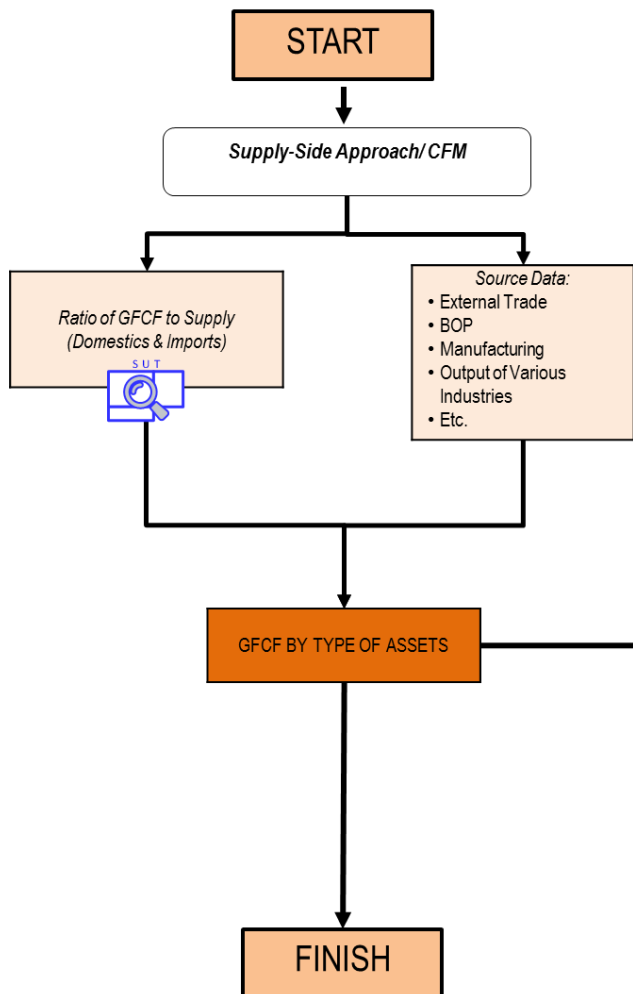
Obtaining the value of capital expenditure by establishments through surveys or censuses and financial statements

Soalan : Question : 4		Perbelanjaan modal dan nilai harta (RM) / Capital expenditure and value of assets (RM)				
		Nilai buku bersih seperti pada 1.1.2005 Net book value as at 1.1.2005	Perbelanjaan modal dalam tahun 2005 Capital expenditure during 2005			Membuat/Membina sendiri Self-produced/built
			Pembelian Purchases			
			Baru New	Terpakai Used		
Jenis Harta Type of Assets		01	02	03	04	
4.1	Harta Tetap: Fixed Assets:					
4.1.1	Tanah / Land	71				
4.1.2	Bangunan dan pembinaan lain: Buildings and other construction:					
(a)	Tempat kediaman Residential	72				
(b)	Bukan tempat kediaman (misalnya stor, pejabat, dll.) Non-residential (e.g. stores, offices, etc.)	73				
(c)	Pembinaan lain Other construction	74				
4.1.3	Alat pengangkutan: Transport equipments:					
(a)	Kereta penumpang Passenger cars	76				

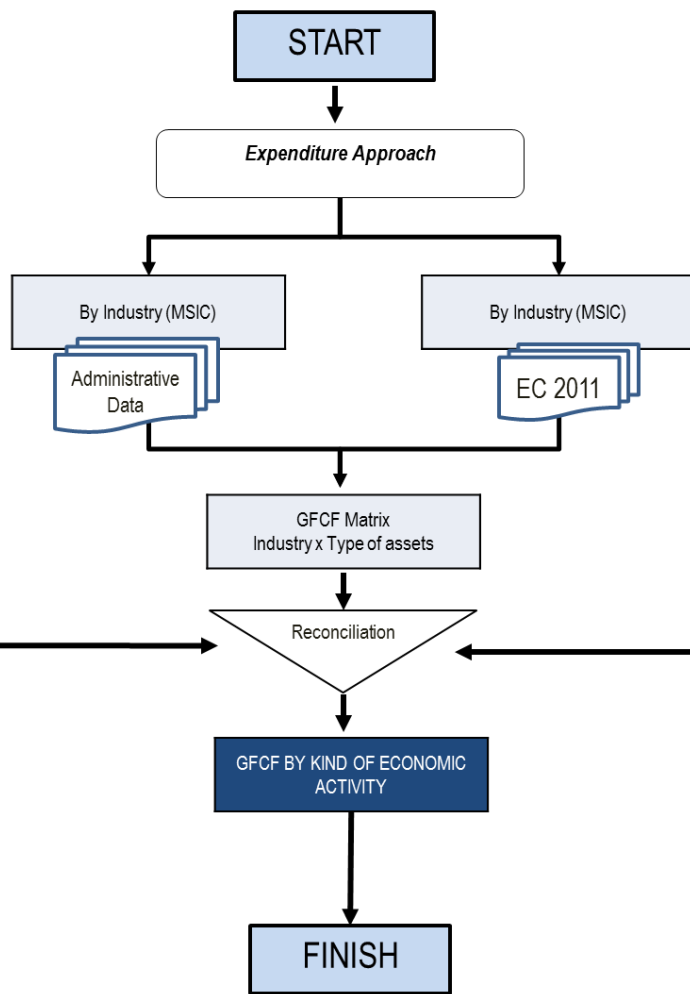
Perbelanjaan modal dan nilai harta (RM) (samb.) / Capital expenditure and value of assets (RM) (cont.)			
Harta yang dijual atau ditamatkan penggunaannya dalam tahun 2005 Assets sold or discarded during 2005	Keuntungan(+)/kerugian(-) daripada jualan/penilaian semula harta Gain (+)/loss (-) from sales/ revaluation of assets	Susut nilai semasa dalam tahun 2005 Current depreciation during 2005	Nilai buku bersih seperti pada 31.12.2005 Net book value as at 31.12.2005
05	06	07	08 = 01 + 02 + 03 + 04 - 05 ± 06 - 07
71			
72			
73			
74			
76			

$$\text{GFCF} = 02 + 03 + 04 - 05$$

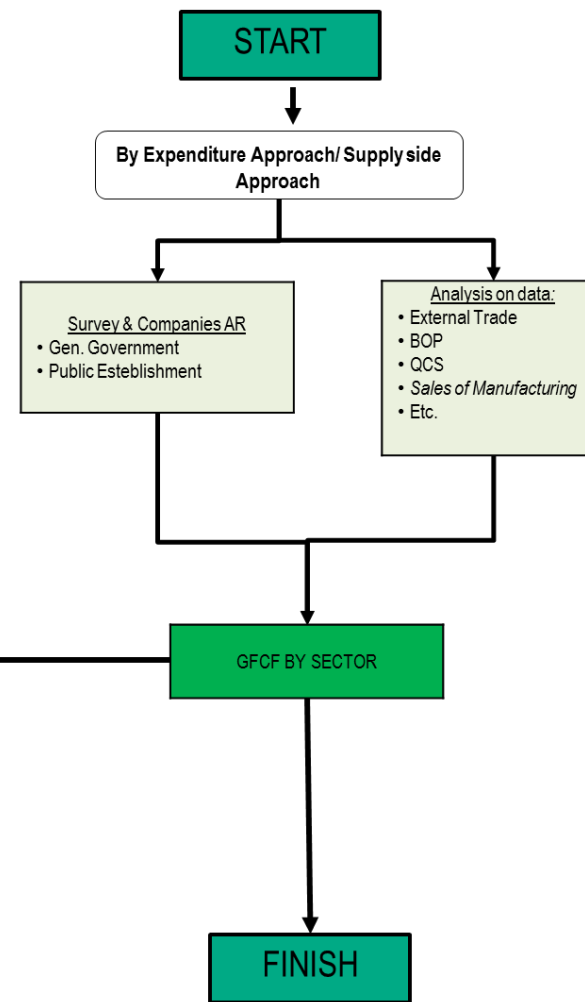
GFCF By Type of Assets



GFCF By KEA



GFCF By Sector



Malaysia's Governement Statistics Performance



(RM million)

GDP by Government services at Current 2010 Prices	2010	2011	2012	2013	2014	2015	2016 ^a	2017 ^p
Perkhidmatan kerajaan Government services	64,359	72,390	85,560	89,796	95,430	97,645	103,888	110,322
Perkhidmatan awam am <i>General public services</i>	7,858	8,729	9,802	11,370	13,843	16,015	16,817	17,832
Pertahanan <i>Defence</i>	6,092	6,950	8,079	8,431	8,862	8,867	9,331	9,876
Ketenteraman dan keselamatan awam <i>Public order and safety</i>	7,013	8,215	9,660	9,848	10,310	10,327	10,321	10,768
Perkhidmatan ekonomi <i>Economic affairs</i>	5,537	6,018	6,504	7,102	7,235	7,412	8,046	8,601
Perlindungan alam sekitar <i>Environmental protection</i>	214	236	246	271	352	355	366	377
Kemudahan perumahan dan kemasyarakatan <i>Housing and community amenities</i>	910	937	1,015	1,165	1,175	1,180	1,430	1,595
Kesihatan <i>Health</i>	8,485	9,221	11,538	11,913	12,782	12,950	14,333	15,178
Rekreasi, kebudayaan dan keagamaan <i>Recreation, culture and religion</i>	990	1,050	1,317	1,651	1,376	1,425	1,591	1,661
Pendidikan <i>Education</i>	26,494	30,212	36,566	37,198	38,594	38,271	40,826	43,605
Perlindungan sosial <i>Social protection</i>	765	821	833	847	900	845	827	829

(RM million)

GDP by Government services at Constant 2010 Prices	2010	2011	2012	2013	2014	2015	2016 ^a	2017 ^p
Perkhidmatan kerajaan Government services	64,359	71,503	78,397	84,164	89,490	93,208	97,818	102,623
Perkhidmatan awam am <i>General public services</i>	7,858	8,582	8,937	10,610	12,930	15,265	15,730	16,486
Pertahanan <i>Defence</i>	6,092	6,939	7,472	7,942	8,358	8,484	8,762	9,172
Ketenteraman dan keselamatan awam <i>Public order and safety</i>	7,013	8,105	8,836	9,224	9,655	9,845	9,780	10,088
Perkhidmatan ekonomi <i>Economic affairs</i>	5,537	5,944	5,960	6,655	6,785	7,065	7,511	7,941
Perlindungan alam sekitar <i>Environmental protection</i>	214	236	227	255	332	339	347	354
Kemudahan perumahan dan kemasyarakatan <i>Housing and community amenities</i>	910	926	933	1,092	1,101	1,126	1,353	1,490
Kesihatan <i>Health</i>	8,485	9,102	10,566	11,168	11,988	12,362	13,453	14,071
Rekreasi, kebudayaan dan keagamaan <i>Recreation, culture and religion</i>	990	1,037	1,207	1,547	1,291	1,361	1,503	1,551
Pendidikan <i>Education</i>	26,494	29,818	33,494	34,874	36,205	36,553	38,588	40,686
Perlindungan sosial <i>Social protection</i>	765	813	766	796	846	810	791	783

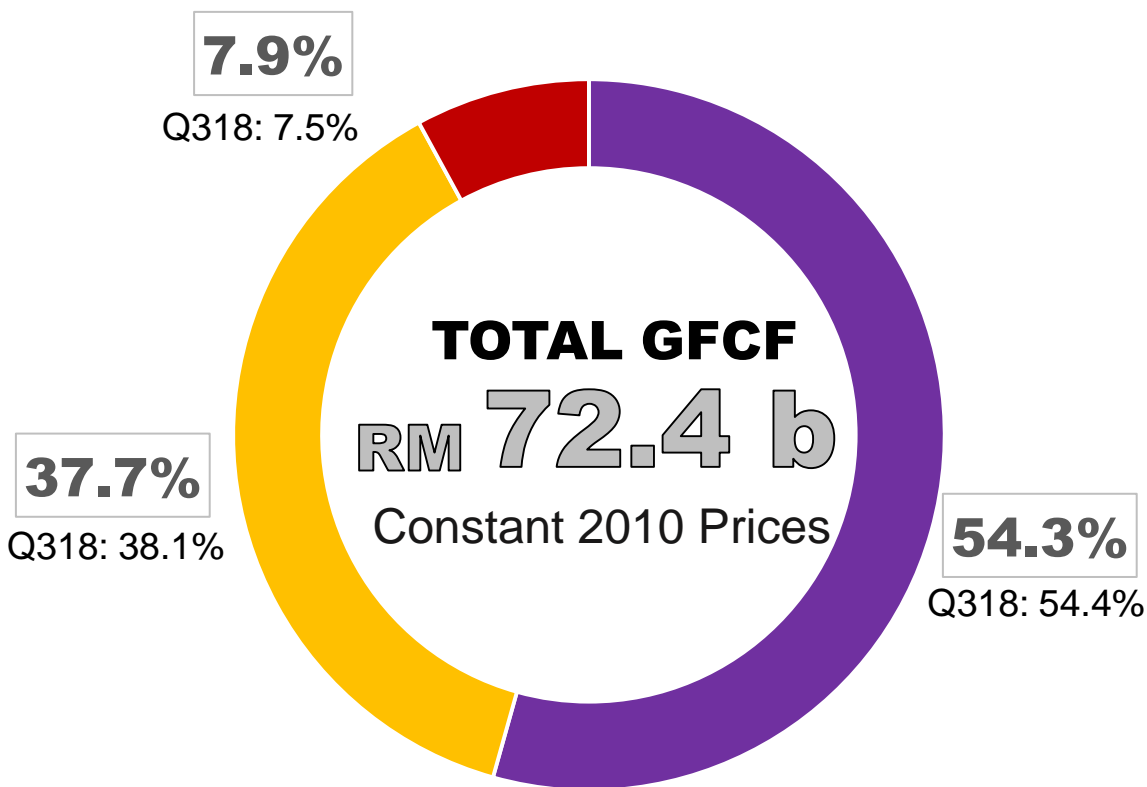
YoY (%)

GDP by Government services at Constant 2010 Prices	2010	2011	2012	2013	2014	2015	2016 ^a	2017 ^p
Perkhidmatan kerajaan Government services		11.1	9.6	7.4	6.3	4.2	4.9	4.9
Perkhidmatan awam am <i>General public services</i>		9.2	4.1	18.7	21.9	18.1	3.0	4.8
Pertahanan <i>Defence</i>		13.9	7.7	6.3	5.2	1.5	3.3	4.7
Ketenteraman dan keselamatan awam <i>Public order and safety</i>		15.6	9.0	4.4	4.7	2.0	(0.7)	3.1
Perkhidmatan ekonomi <i>Economic affairs</i>		7.4	0.3	11.7	2.0	4.1	6.3	5.7
Perlindungan alam sekitar <i>Environmental protection</i>		10.3	(3.8)	12.3	30.2	2.1	2.4	2.0
Kemudahan perumahan dan kemasyarakatan <i>Housing and community amenities</i>		1.8	0.8	17.0	0.8	2.3	20.2	10.1
Kesihatan <i>Health</i>		7.3	16.1	5.7	7.3	3.1	8.8	4.6
Rekreasi, kebudayaan dan keagamaan <i>Recreation, culture and religion</i>		4.7	16.4	28.2	(16.5)	5.4	10.4	3.2
Pendidikan <i>Education</i>		12.5	12.3	4.1	3.8	1.0	5.6	5.4
Perlindungan sosial <i>Social protection</i>		6.3	(5.8)	3.9	6.3	(4.3)	(2.3)	(1.0)

Share to Government services

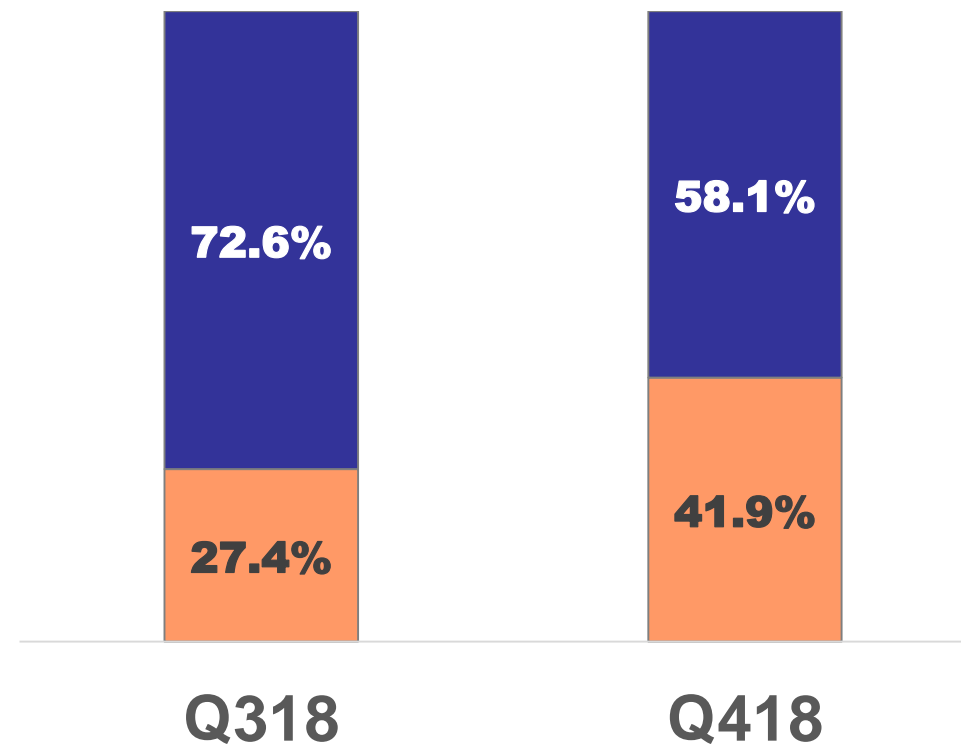
GDP by Government services at Constant 2010 Prices	2010	2011	2012	2013	2014	2015	2016 ⁹	2017 ^P
Perkhidmatan kerajaan Government services	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
Perkhidmatan awam am <i>General public services</i>	12.2	12.0	11.4	12.6	14.4	16.4	16.1	16.1
Pertahanan <i>Defence</i>	9.5	9.7	9.5	9.4	9.3	9.1	9.0	8.9
Ketenteraman dan keselamatan awam <i>Public order and safety</i>	10.9	11.3	11.3	11.0	10.8	10.6	10.0	9.8
Perkhidmatan ekonomi <i>Economic affairs</i>	8.6	8.3	7.6	7.9	7.6	7.6	7.7	7.7
Perlindungan alam sekitar <i>Environmental protection</i>	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.3
Kemudahan perumahan dan kemasyarakatan <i>Housing and community amenities</i>	1.4	1.3	1.2	1.3	1.2	1.2	1.4	1.5
Kesihatan <i>Health</i>	13.2	12.7	13.5	13.3	13.4	13.3	13.8	13.7
Rekreasi, kebudayaan dan keagamaan <i>Recreation, culture and religion</i>	1.5	1.5	1.5	1.8	1.4	1.5	1.5	1.5
Pendidikan <i>Education</i>	41.2	41.7	42.7	41.4	40.5	39.2	39.4	39.6
Perlindungan sosial <i>Social protection</i>	1.2	1.1	1.0	0.9	0.9	0.9	0.8	0.8

GFCF eased from 3.2 per cent to 0.3 per cent in the this quarter.



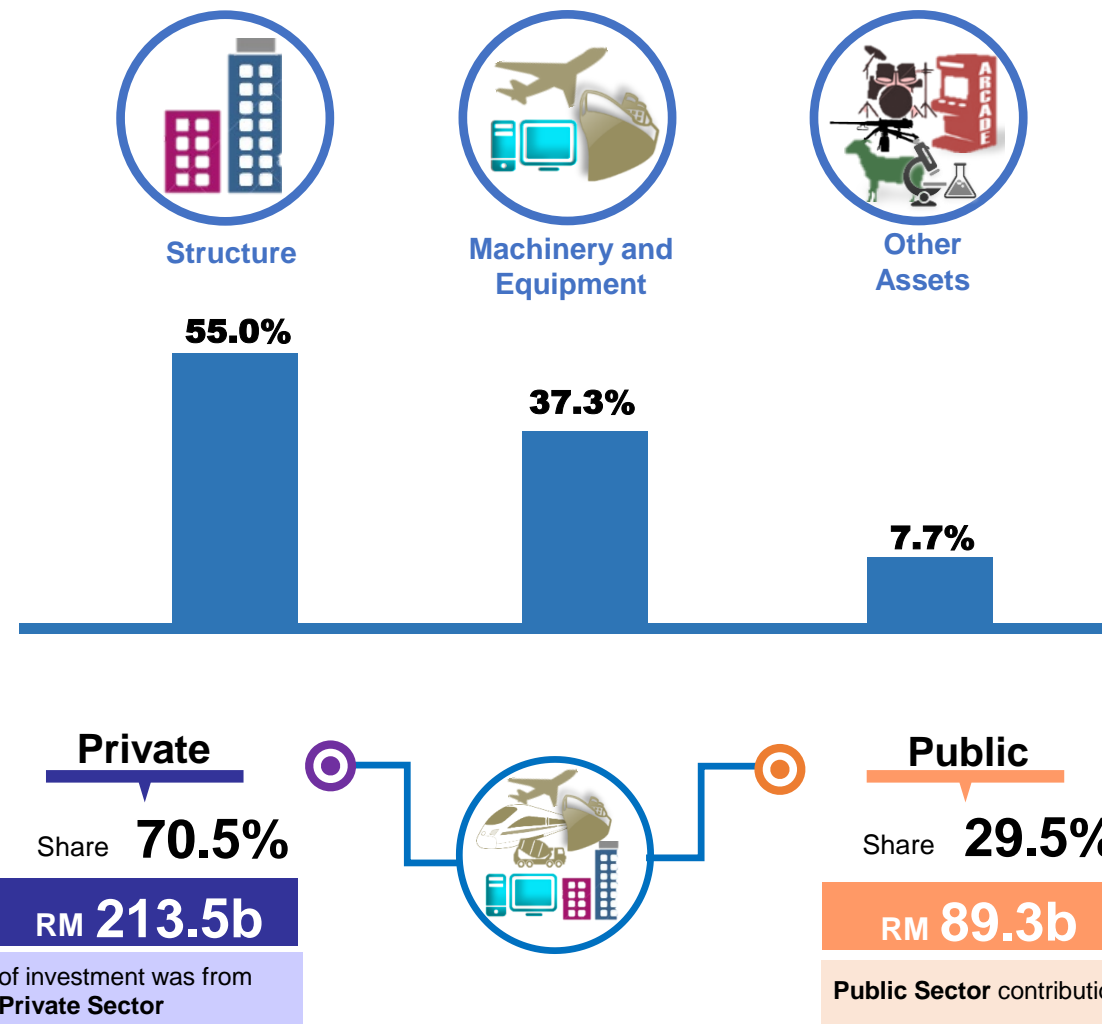
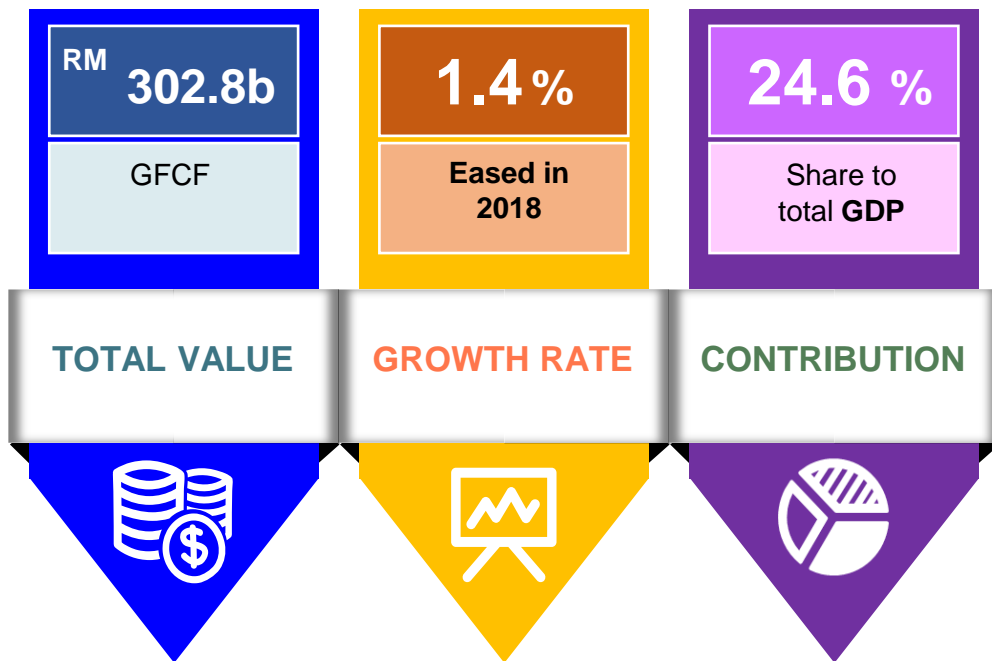
- STRUCTURE** (YoY Q318: 1.8%, YoY Q418: 0.8%)
- MACHINERY & EQUIPMENT** (YoY Q318: 5.9%, YoY Q418: -1.5%)
- OTHER ASSETS** (YoY Q318: 0.1%, YoY Q418: 5.2%)

Share by Sectors to Total GFCF



- PRIVATE SECTOR** (YoY Q318: 6.9%, YoY Q418: 4.4%)
- PUBLIC SECTOR** (YoY Q318: -5.5%, YoY Q418: -4.9%)

For year 2018, GFCF grew at a slower pace of **1.4 per cent** (2017: 6.2%) driven by Private sector (share: 70.5%).

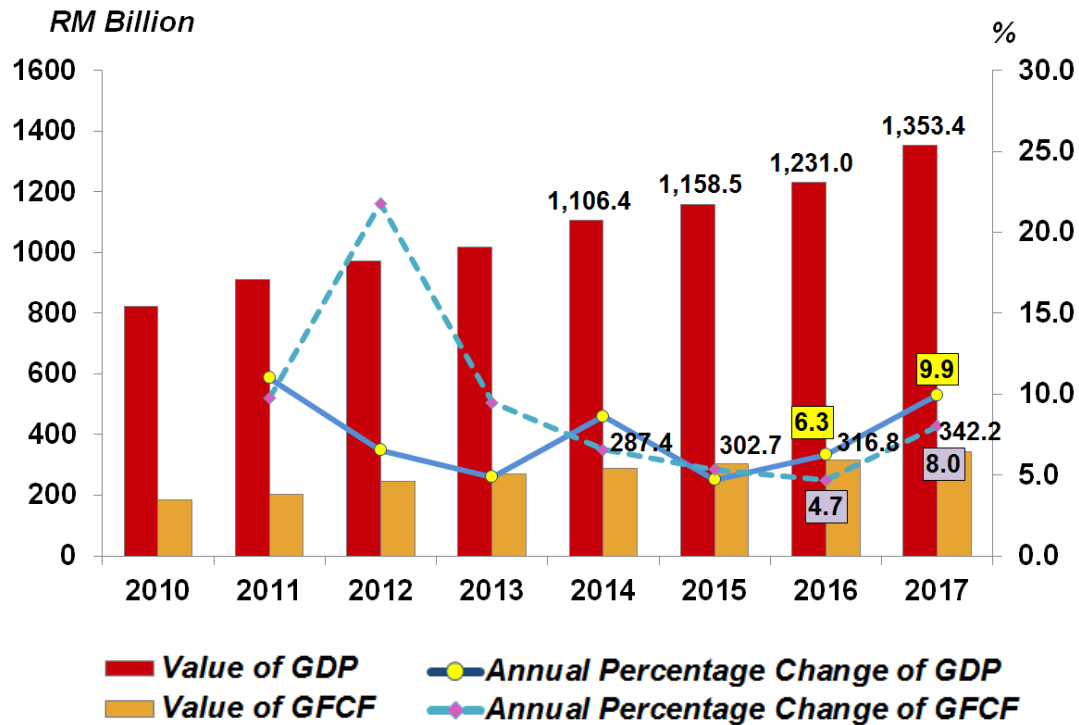


HIGHLIGHTS OF GFCF 2017



CURRENT PRICES 2010=100

GFCF in Malaysia has surpassed the RM300 billion mark since year 2015



CONSTANT 2010 PRICES 2010=100

TOTAL GFCF AT CONSTANT 2010 PRICES

RM298.5 b (2016 : RM281.1 b)

Annual Growth of GFCF at Constant 2010 Prices

2016 2.7% **2017 6.2%**

Share of GFCF to GDP

2016 25.7% **2017 25.3%**

Share of Private sector to Total GFCF

2016 66.5% **2017 68.4%**

GFCF BY TYPE OF ASSETS



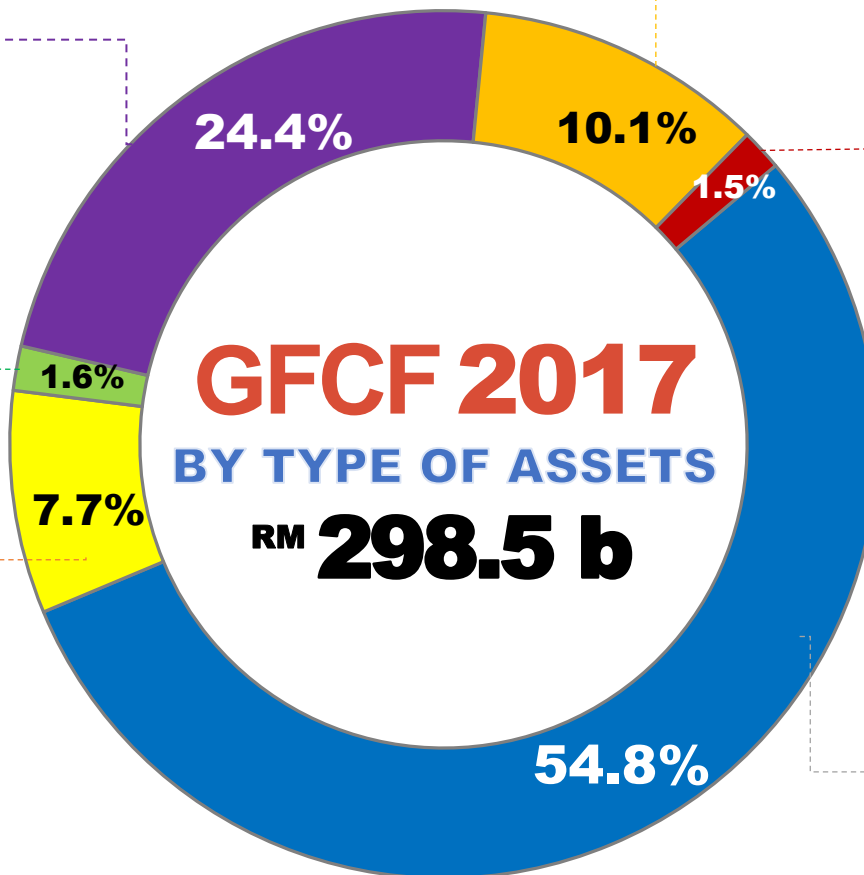
**ICT EQUIPMENT AND OTHER
MACHINERY & EQUIPMENT**
2017 YoY: **15.5%** (RM72.9 b)
2016 YoY: 0.9% (RM63.1 b)



**CULTIVATED BIOLOGICAL
RESOURCES**
2017 YoY: **-0.3%** (RM4.6 b)
2016 YoY: 0.3% (RM4.6 b)



TRANSPORT EQUIPMENT
2017 YoY: **4.2%** (RM23.1 b)
2016 YoY: -2.7% (RM22.1 b)



**INTELLECTUAL PROPERTY
PRODUCT**
2017 YoY: **0.5%** (RM30.1 b)
2016 YoY: 0.9% (RM30.0 b)

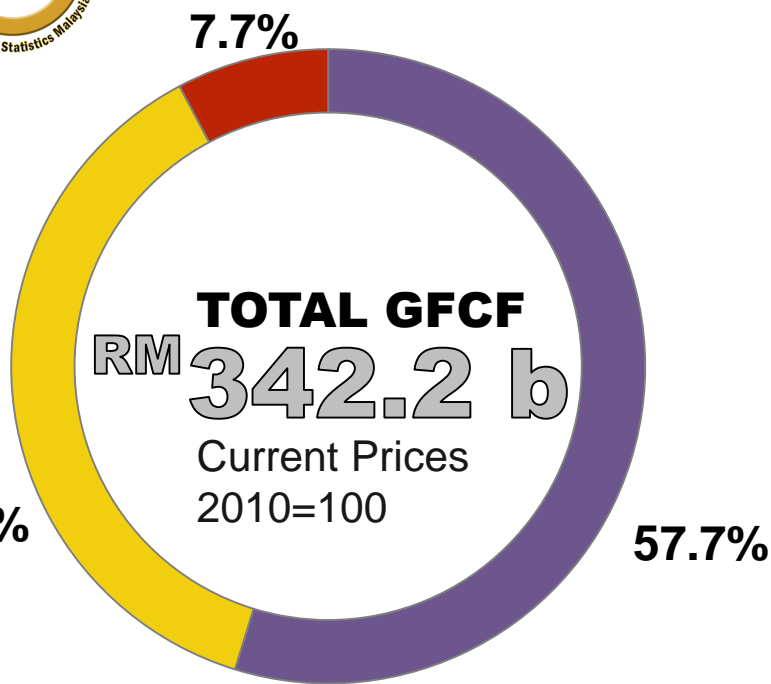


OTHER ASSETS
2017 YoY: **8.4%** (RM4.3 b)
2016 YoY: -4.9% (RM4.0 b)



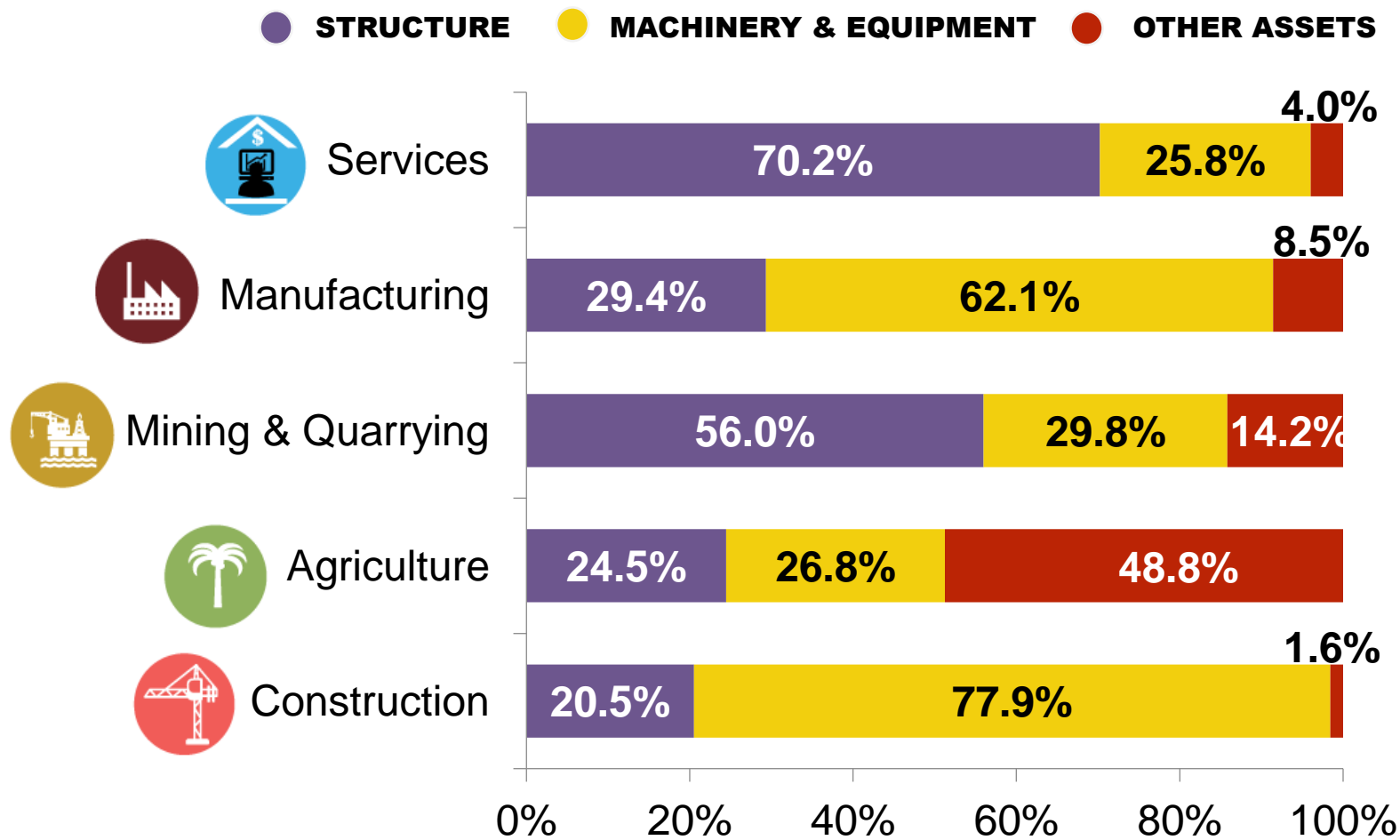
STRUCTURE
2017 YoY: **4.0%** (RM163.4 b)
2016 YoY: 4.9% (RM157.2 b)

GFCF: TYPE OF ASSETS BY ECONOMIC ACTIVITY 2017



Investment in **Structure** remained firm.

The main projects focused in Services and Manufacturing.



CHALLENGES



1. Timeliness – manual key in of annual and budget report from 3 levels of Government (State Governments, Statutory Bodies and Local Authorities)
 - Recording and reconcile
 - Frequencies – prelim, estimates, final (i.e. 2019: 2016f, 2017e, 2018p)
2. Migrating into recent framework which is from cash to accrual basis reporting system
3. Rebasing of GDP 2015=100

TERIMA KASIH & THANK YOU



20 OCT



18 - 23 AUG 2019



10 JULY 2019
(TRIAL MYCENSUS)
JULY 2020
(ACTUAL MYCENSUS)



JAN - DEC 2019



MAC - SEPT 2019



2015 - 2030



#StatsMalaysia | #MyStatsDay | #ISIWSC2019 | #MyCensus2020 | #MyRetailCensus2019 | #HIES2019 | #LeaveNoOneBehind