

United Nations Regional Workshop on The 2020 World Programme on Population and Housing Censuses: International Standards and Contemporary Technologies

SESSION 3: ESSENTIAL FEATURES, DEFINITION AND METHODOLOGIES OF POPULATION AND HOUSING CENSUSES: MALAYSIA

EZATUL NISHA ABDUL RAHMAN

Department of Statistics, Malaysia 25 June 2018 | Park Royal Hotel, Kuala Lumpur



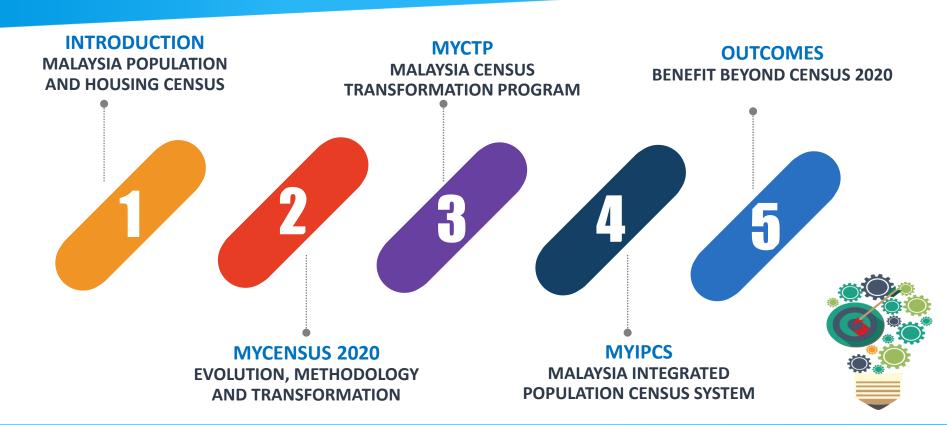




#MyCensus2020

OUTLINES













#MyCensus2020



INTRODUCTION MALAYSIA POPULATION AND HOUSING CENSUS (MYCENSUS)

BACKGROUND OF CENSUS



CENSUS 2020 – 6th

Population and Housing Census is conducted every 10 years. Since establishment of Malaysia in 1963, 5 census have been implemented



PURPOSE

To accurately measure numbers and key demography and socioeconomic characteristics of Malaysia's population, households and living quarters at one point in time



- Census Act 1960 (Revised 1969).
- Statistics Act 1965 (Revised 1989).



Resolution on 2020 World Population and Housing Census Programme adopted by the ECOSOC (10 June 2015) to ensure the member states to conduct a census during 2015–2024 period.



MANUAL

Principles and Recommendations for Population and Housing Censuses, Revision 3, UNSD (2015).







OBJECTIVES



1

To compile the total coverage and profile of the population, households and living quarters in Malaysia with a wide range of demographic and socio-economic characteristics to the smallest area

To provide input for planning, formulation and implementation of government policies and development programmes as stated in the Legislation

2

3

To provide a reliable basis for the estimation and projection of the population and living quarter

To provide input for the development of new socio-economic key indicators

4

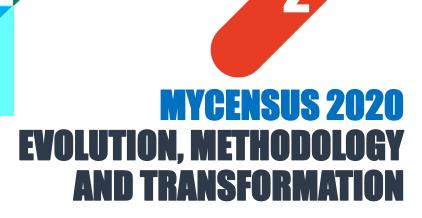








#MyCensus2020







EVOLUTION OF MYCENSUS



Before MERDEKA 1957

 Population Census including un-Federated Malay States

1891

1901

1911

1921

1931

1947

 The first Population Census covering the Straits Settlement and Federated Malay States & Borneo Utara

 First Census for Sarawak



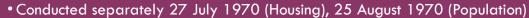


EVOLUTION OF MYCENSUS









- Approach: De Facto
- Mode: Face-to-face interview





• Conducted separately 17 May 1980 (Housing), 11 June 1980 (Population)

- Approach: De Facto
- Mode: Face-to-face interview





Conducted simultaneously on 14 August 1991

- Approach: De Facto & De Jure
- Mode: Face-to-face interview





- Conducted simultaneously on 5 July 2000
- Approach: De Jure
- Mode: Face-to-face interview

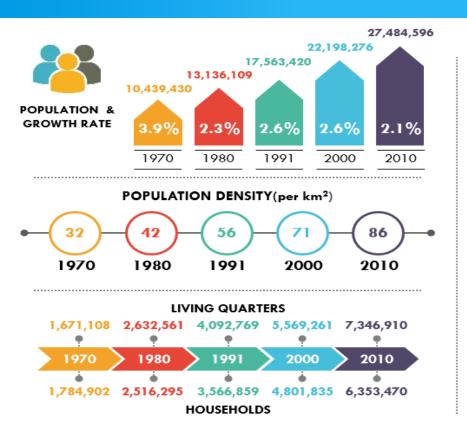


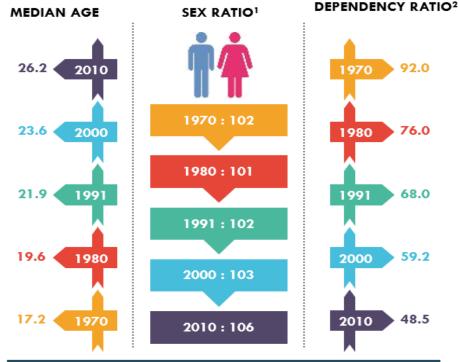
2010

- Conducted simutaneously on 6 July 2010
- Approach: De Jure
- Mode: Face-to-face interview, Drop Off Pick Up (DOPU) & e-Census

FINDINGS: CENSUS 1970 - 2010







NOTES:

- Per 100 female
- 2. The population in the age groups of young (below 15 years) and old age (above 65 years) to be bear for every 100 people of working age (15 years to 65 years)







MYCENSUS 2020 TRANSFORMATION



MOTIVATE POPULATION TO **RESPOND**

- Strategic Communication Plan on Census 2020 *
- Engagement with various parties/agencies
- Publicity through various media & target group
- · More use of digital media





e-CENSUS/CAPI/PAPI CATI/ DOPU

COUNT ON POPULATION, HH & LQ

- Make it easy for people to respond anytime & anywhere
- Encourage people to use selfenumeration*
- Use the latest & cost effective technology - Mobile Apps*
- Field data collection monitored digitally*

ONLINE FIFI D WORK SELF-LISTING

IDENTIFICATION OF ADDRESSES

- MSAR* & MSPR* Development
- · Modernisation of listing online self-listing & use of mobile apps in the field

MSAR - Malaysia Statistical Address Register MSPR - Malaysia Statistical Population Register



33.8 million 9.9 million



Census 2020 Innovation



- **July 2020**
- De Jure approach

STATISTICS COMMUNICATION

- Final Data: 9 months

Stats Geoportal*

- Main Parameter: 3 months⁻¹ After operation completes
- Easy access to data through Census Portal &

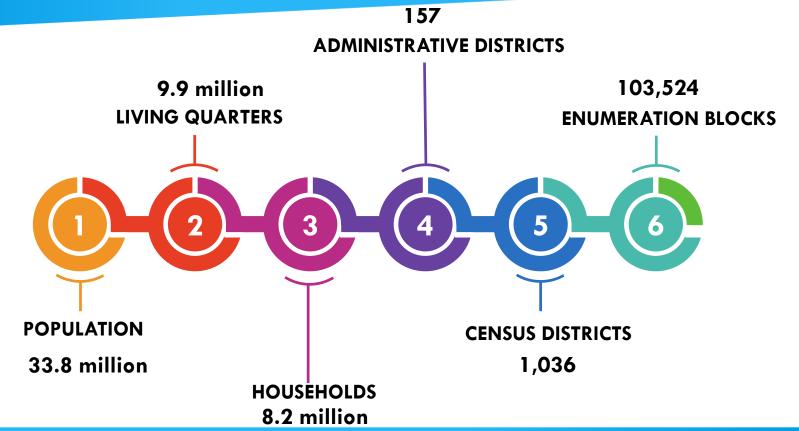






CENSUS 2020 PROJECTION











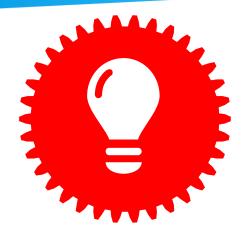
#MyCensus2020



MALAYSIA CENSUS TRANSFORMATION PROGRAM

WHAT IS MALAYSIA CENSUS TRANSFORMATION PROGRAMME (MyCTP)?





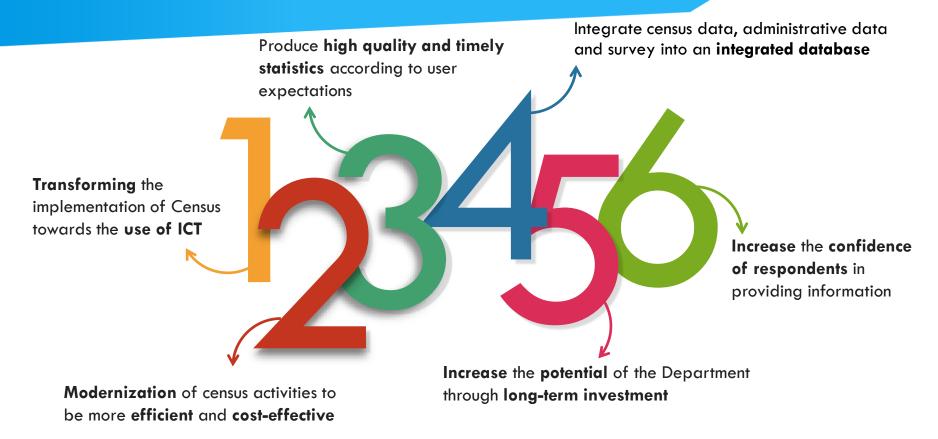
Transformation that encompasses of innovation elements the implementation of the Population and Housing Census of Malaysia 2020



design towards modernization Operational through a **new ICT-based framework** aligns with National **Development Strategy** Malaysia (MyNDS) outlined in the 11th Malaysia Plan of delivering high-performance, high impact and cost-effective outcomes

OBJECTIVES OF MyCTP









WHY MyCTP?



Monetary implication – Stakeholders expectation & Rapidly changing SCENARIO increasing cost dynamic & demanding Users use of ICT Increasingly **Availability of** Changing Changing **Complex Modus** administrative data population profile **Environment** operandi CURRENT **ASPIRATION Application of** More efficient More efficient & long administrative data **Census Management** term capital oriented investment Open Data Use of latest, more dynamic & **More strategic** Initiative & Big flexible ICT infrastructure and communication strategy **Data Analytics** application system 15





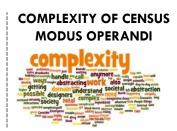
CHALLENGES OF MyCENSUS 2020





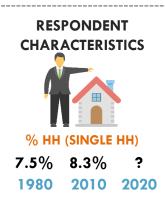


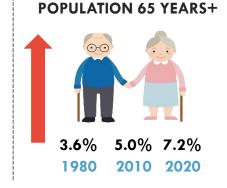




STAKEHOLDERS EXPECTATIONS & DYNAMIC USERS













BEST PRACTICES FROM OTHER COUNTRIES



2020 CENSUS TRANSITION **PLAN**

- i. Reengineering Address Canvassing
- ii. Optimizing Self-Response
- iii. Utilizing Administrative Records and Third-Party Data
- iv. Reengineering Field Operations



KEY TRANSFORMATI ON

CENSUS **TRANSFORMATION PROGRAMME**

- i. An online census
- ii. Administrative data
- iii. Plans Beyond 2021

THE 2016 CENSUS STRATEGY **PROJECT**

- i. Feasible Approach
 - traditional census
 - existing administrative registers
 - continuous measurement
- ii. Country-Specific Legislation Related to The Definition of a Census
- iii. Administrative Data Census Project



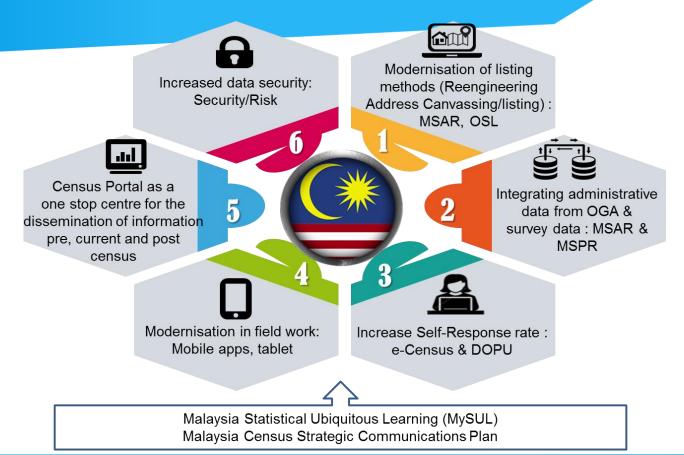






MYCTP: ELEMENTS OF INNOVATION









1ST ELEMENT OF INNOVATION



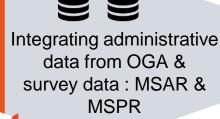
Modernisation of listing methods (Reengineering Address Canvassing/listing): MSAR, OSL

- List of Address in **NEWSS**
- EB Map in GIS **Format**
- List of Address, Housecode & Geocode from POS Malaysia & TM Smart Map

- Online self Listing (OSL)
- CAPI
- Fieldwork
- **Updating Digital Map**
- Integration of information in MSAR with NEWSS and GIS Smart Geosearch
- Standard Complete Address **Format**
- StatsBDA Platform
- Address LQ & GIS
- Address ID (identifier) for every LQ

2ND ELEMENT OF INNOVATION

MSPR





















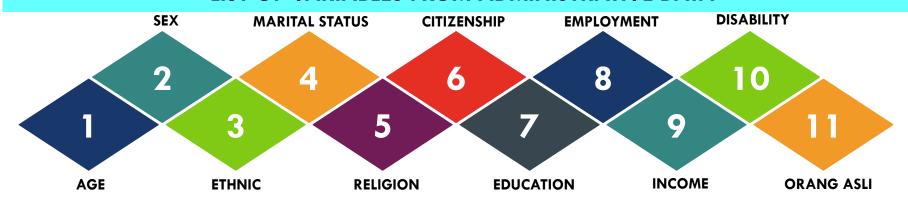
2







LIST OF VARIABLES FROM ADMINISTRATIVE DATA

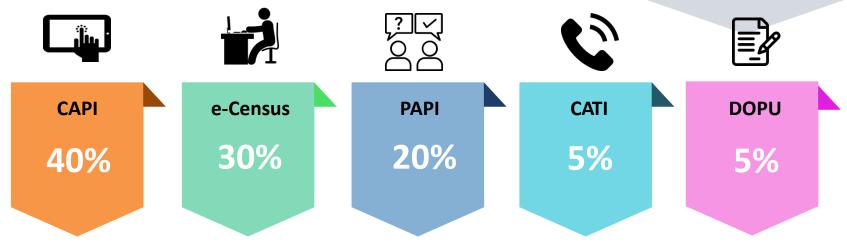


ID NO. / PASSPORT



3RD ELEMENT OF INNOVATION





CENSUS 2020 MODE OF ENUMERATION



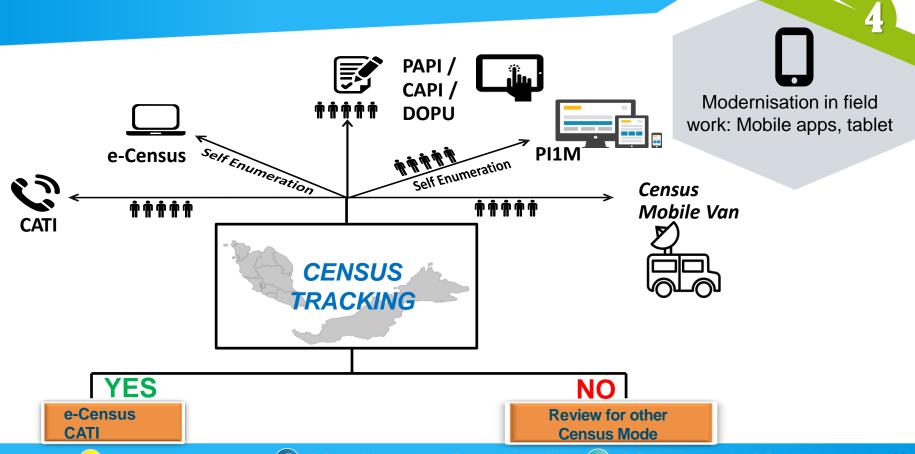


3RD ELEMENT OF INNOVATION



			(*)	***			
YEAR	2015	2016	2016	2016	2020	2021	2020
ADMINISTRATIVE DATA	✓		'	'	'	'	~
e-CENSUS	V		~	•	•	~	~
CAPI		'	'		'	•	'
МОМВ					/		
DOPU		<u> </u>	~	'			~
CATI						1 1 1 1 1 1 1 1	~

4TH ELEMENT OF INNOVATION



5TH ELEMENT OF INNOVATION





Census Portal as a one stop centre for the dissemination of information pre, current and post census

Census Info

- Background
- History
- Census Act
- Organisation
- Census Activity

Publicity

- Infographic
- Video
- Newsletter
- Current Activity
- Media

www.dosm.gov.my

Application

MyCensus Portal &

Stats Geoportal

- e-Census
- **Census Tracking** (e-RKL)
- **U-Learning** (MySUL)

Census **Product**

- ARC
- Research
- **Publication**
- Infographic
- Visualisation
- Table Builder

Geospatial

- **GIS**
- **Population Data** in GIS
- Other Statistics

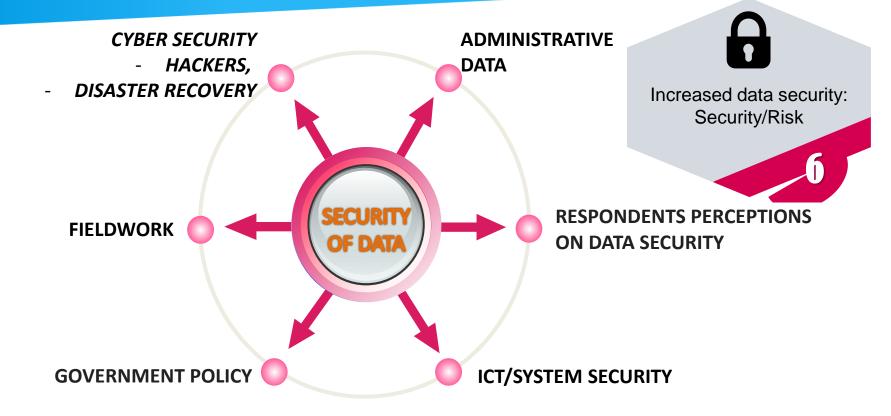






6TH ELEMENT OF INNOVATION









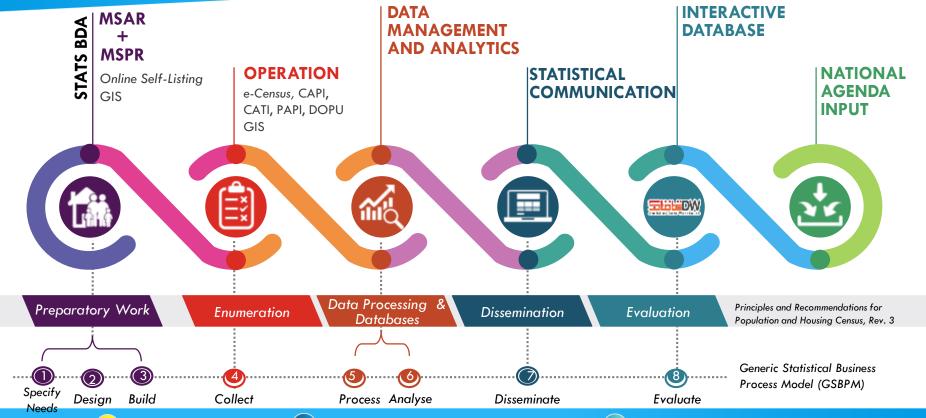
#MyCensus2020



MALAYSIA INTEGRATED POPULATION CENSUS SYSTEM

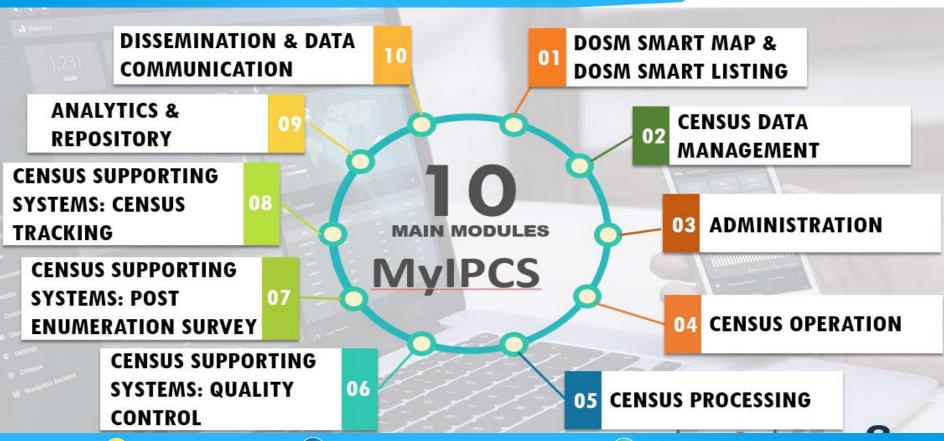
MyIPCS - MALAYSIA INTEGRATED POPULATION CENSUS SYSTEM





MyIPCS: MODULES









#MyCensus2020



OUTCOMES BENEFIT BEYOND CENSUS 2020

LESSONS LEARNED FROM CENSUS 2010 IMPLEMENTATION



Issue/Challenge	Suggestions				
Planning and Preparation					
Questionnaire is too complex and contained too many variables to be responded.	The use of administrative data from other government agencies will complement the existing data sources				
Non-Integrated Database and process. All the activities lead to data redundancies and inconsistencies	Centralized database and data preparation before census will maximize data integrity, enhance data reliability and reduce redundancies				
Census 2010 framework is based on household listing obtained from fieldwork. ID for building unit (BU) and Living Quarters (LQ) generated are based on the statistical boundary code	Generate a unique and permanent ID for all addresses in Malaysia. Address ID can detect area in which state/city/section it resides in. ID should be standardized for all administrative agency				





LESSONS LEARNED FROM CENSUS 2010 IMPLEMENTATION



Issue/Challenge	Suggestions				
Operation and Data Process					
Sudden resignation of a Census Enumerator or Supervisor, termination of a Census Enumerator or Supervisor for underperforming of his/her tasks, limited qualified candidates.	Human resources availability will be addressed by engaging available university students on break, and existing public service officials				
Training issues and the inability of trainers to conduct the required training as per the guideline.	Comprehensive training that will be conducted through training videos, and latest ICT technology				
eCensus response rate was less than 1%	eCensus will be expanded in 2020, with efficient house code ID system, improved and capable ICT infrastructure, and extensive publicity				
Questionnaire form data capture was inadequate due to incomplete and illegible forms, poor form conditions	Use of latest variety of tools for data capture such as tablet computer during interviews, simplified questionnaire forms, sufficient editing and review				





FUTURE BENEFITS







- The basis information for national planning and development
- Population information, household and living quarters to the smallest geographic area (local statistics)



REGISTER BASED STATISTICS (MSAR & MSPR)

- Complete LQ and population address database
- The Population and Housing Census can be implemented on a smaller scale in the future



STATISTICS LANDSCAPE TRANSFORMATION

- Technology change from paper-based to online
- Improve the efficiency of statistical delivery systems to be more modern, dynamic and user-friendly
- Improve the statistical literacy

FUTURE BENEFITS







- Up-to-date data from MSAR & MSPR can be shared with various agencies (aggregate data).
- Cooperation with other Government Agencies (OGA) in the use of administrative data can be enhanced



ESTIMATES AND PROJECTION OF POPULATION, HOUSEHOLDS AND LIVING QUARTERS

Population input for the establishment of key national policy



COST EFFECTIVE

- Long term investments
- Continuous ICT improvements
- Cost effective for future





Welcoming 62nd ISI WORLD STATISTICS CONGRESS 2019



18 - 23 OGOS 2019 | KUALA LUMPUR

Thank You





