



DEPARTMENT OF STATISTICS MALAYSIA  
MINISTRY OF ECONOMIC AFFAIRS



## Regional Thematic Conference on “Managing a Statistical Organization in Times of Change”

### Session 1

Supporting the transformation of statistical production processes from the data collection to dissemination in the context of the digital and technological revolution

**THE TRANSFORMATION AND MODERNISATION OF OFFICIAL STATISTICS IN MALAYSIA**



20 OCT



2016 - 2030

12 February 2020 | Manila, Philippines



@StatsMalaysia  
@MyCensus2020



[www.dosm.gov.my](http://www.dosm.gov.my)



[www.mycensus.gov.my](http://www.mycensus.gov.my)



# STATISTICAL SYSTEM IN MALAYSIA



## Statistical System in Malaysia

Department of Statistics  
Malaysia  
Governance  
Users



**Changes..**  
At Global & National  
Level  
Government's Direction



## Transformation & Modernisation

Adopted in producing &  
disseminating official  
statistics



**Challenges...**  
in producing right time of  
official statistics  
More granular statistics



# STATISTICAL SYSTEM IN MALAYSIA



## DEPARTMENT OF STATISTICS MALAYSIA (DOSM)



- **Premier government agency under the Ministry of Economic Affairs** entrusted with the responsibility to collect, interpret and disseminate latest and real time statistics in the monitoring of national economic performance and social development.
- Established in 1949 under the provisions of the Statistics Ordinance 1949 , known as Bureau of Statistics.
- Under the provisions of the **Statistics Act 1965 (Revised 1989)**, known as Department of Statistics, Malaysia.

## DOSM'S FUNCTION AS STIPULATED IN THE ACT

To **COLLECT** and **INTERPRET STATISTICS** for the purpose of formulation or implementation of Government policies in **WHATEVER FIELDS** as needed by the Government or for fulfilling the requirements of trade, commerce, industry, agriculture or others.

## MALAYSIA'S STATISTICAL SYSTEM

A **CENTRALISED SYSTEM** and at the same time allows other government agencies to collect statistics to fulfill their own needs

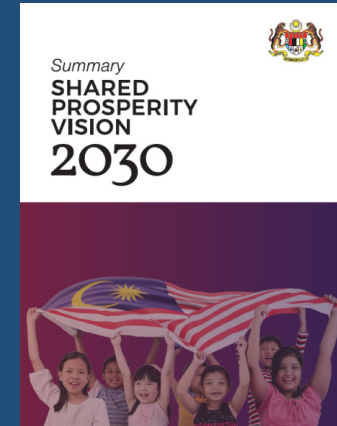
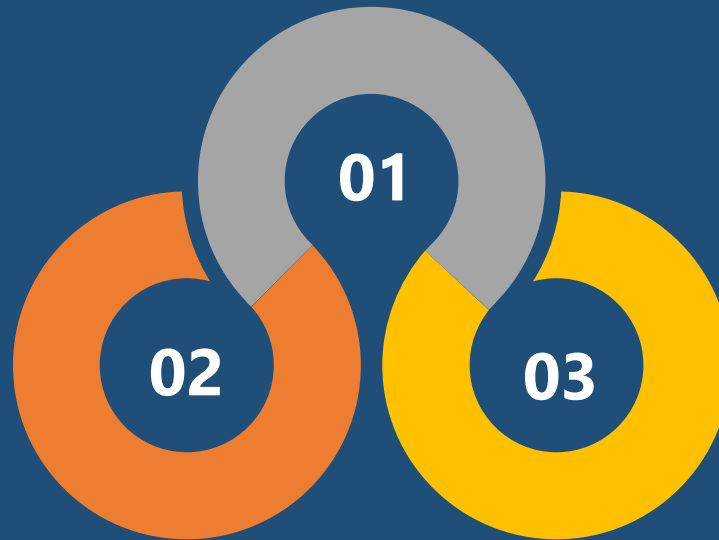
 LAWS OF MALAYSIA Act 415 STATISTICS ACT 1965 (REVISED-1989)	 LAWS OF MALAYSIA REPRINT Act 16 CENSUS ACT 1960 Incorporating all amendments up to 1 January 2006
<p>Under the <b>Statistics Act 1965</b> (Revised - 1989), the functions of DOSM [Section 2] are:</p> <p>To collect and interpret statistics for the purpose of formulation or implementation of government policies....</p>	<p>Under <b>Census Act 1960</b>:</p> <p>The Yang di-Pertuan Agong may, by notification in the Gazette, from time to time direct that a census to be taken throughout Malaysia of the Population, Agriculture, Trade, Labor, Industry, Commerce....</p>



# CHANGES @ GLOBAL & NATIONAL...

## CHANGES IN ECONOMIC STRUCTURE & DIRECTION

Knowledge-based, gig economy, sharing economy, high-value



## SUSTAINABLE DEVELOPMENT GOALS (SDG)

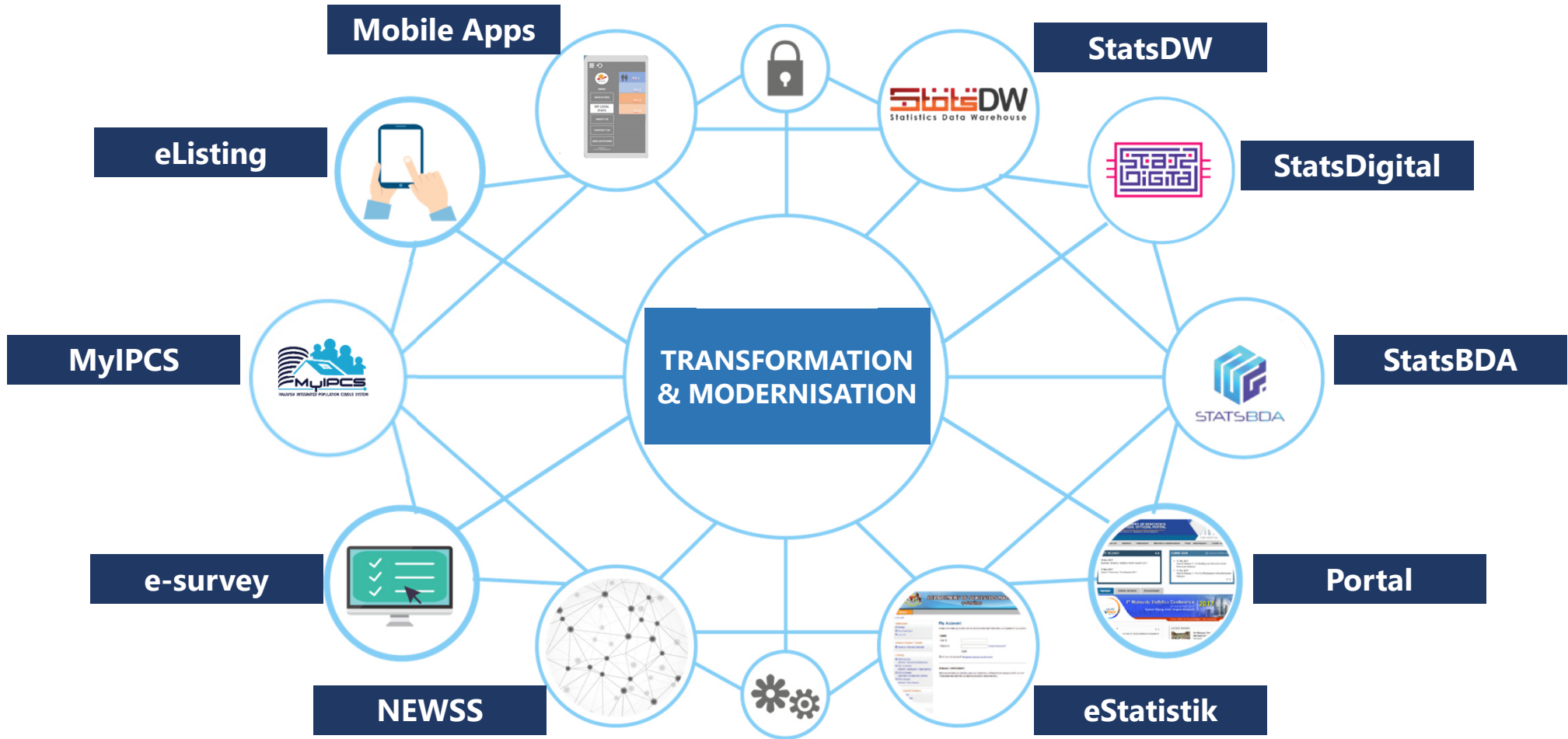
The Transformative Agenda for Official Statistics is pursued to support of the 2030 Agenda.

## WEALTH & INCOME DISPARITIES

Disparities across income groups, regions and ethnic



# TRANSFORMATION & MODERNISATION...





## StatsBDA



DOSM is now moving towards Big Data Analytics (BDA) in producing more reliable and timeliness official statistics. The project deliverables which are establishing big data infrastructure, development STATSBDAs modules and building skill sets in data science field.

## Kick-off ...

### Implementation of big data in Malaysia Trade and Price domain



**Trade by Enterprise  
Characteristic (TEC)**

**Price Intelligence  
(PI)**



**Public Maturity Assessment on Official Statistics  
(PMAOS)**

**Real Time News on Official Statistics  
(RTOS)**





**StatsDigital**



## What?

A Modernization Digitalization Project with the main purpose on enhancing data management system by preserving and archiving historical/current publication in digital form . It is a one-stop centre platform for DOSM publications which can be accessed by public user and DOSM community.

## How?

Automate process on publications by classifying, scanning, editing including OCR and data extraction to produce both data; structured (CSV) and unstructured (excel) with the support of high-end technology.

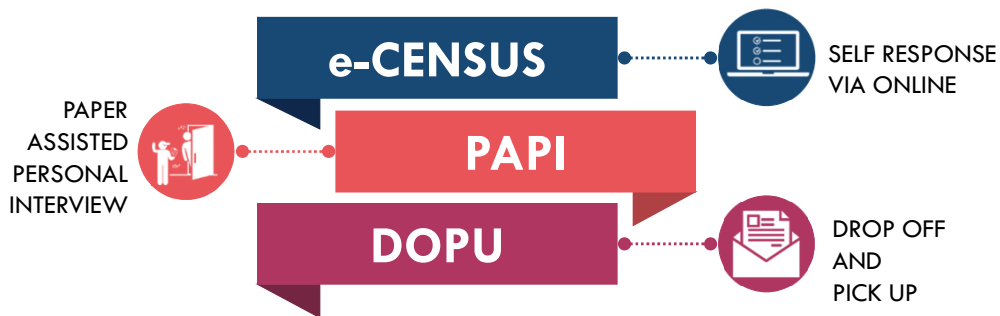
## Main Modules:

1. Scanning Management Module
2. Publication Management Module
3. StatsDigital Portal Module

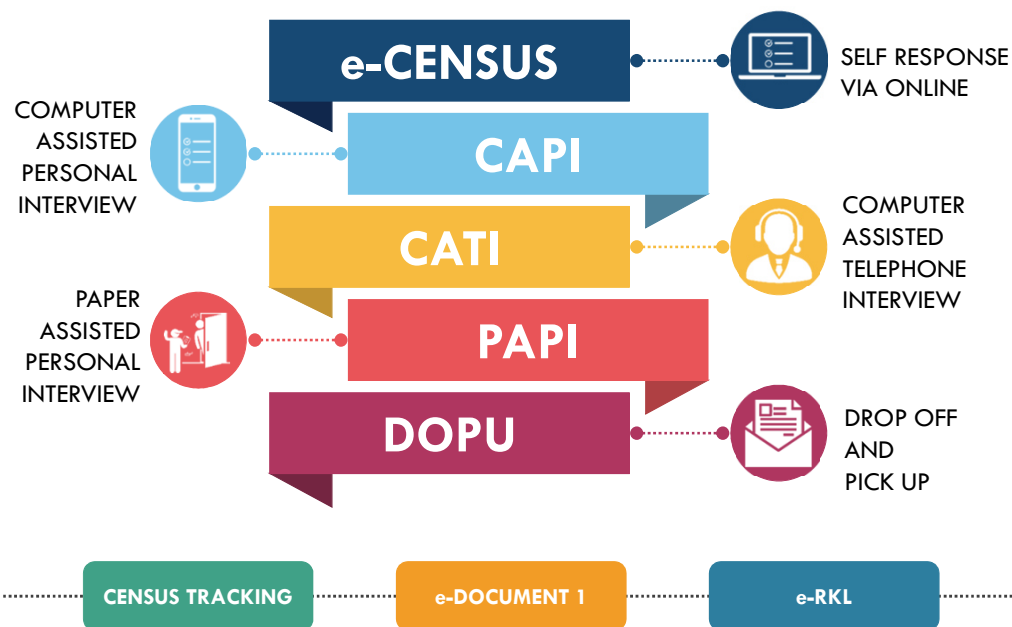


## Malaysia Integrated Population Census System (MyIPCS)

### CENSUS 2010



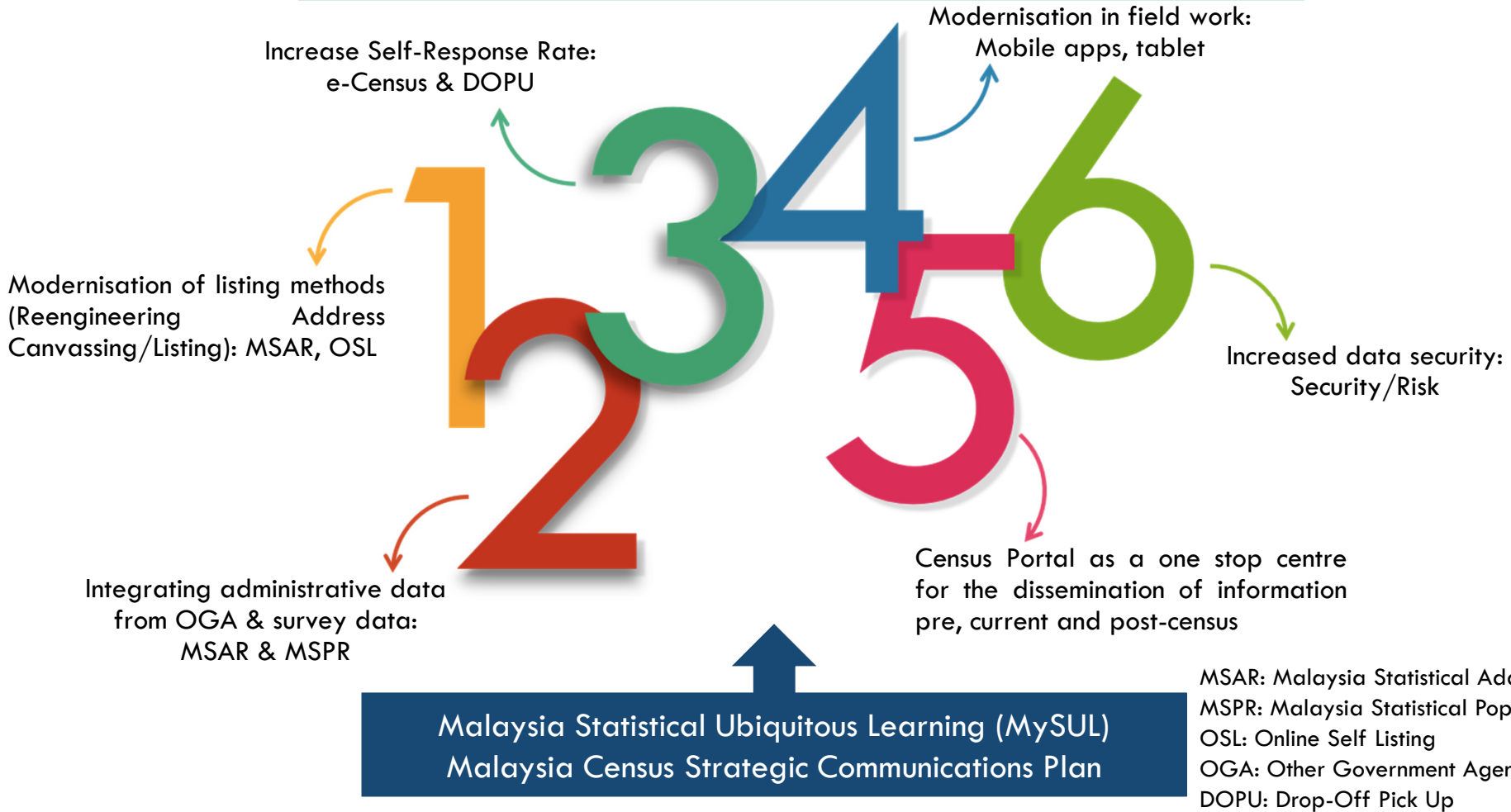
### CENSUS 2020







# TRANSFORMATION & MODERNISATION...

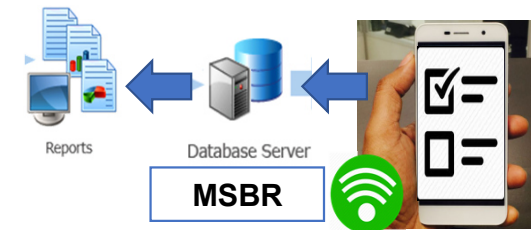
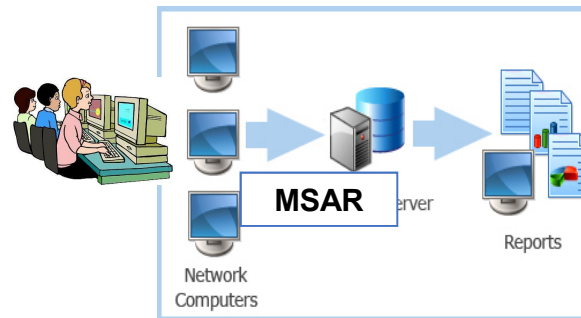




## eListing

### Online Self Listing (OSL)

Respondents fill up listing form by their own. They will be provided with a username and password by email or message through mobile phone



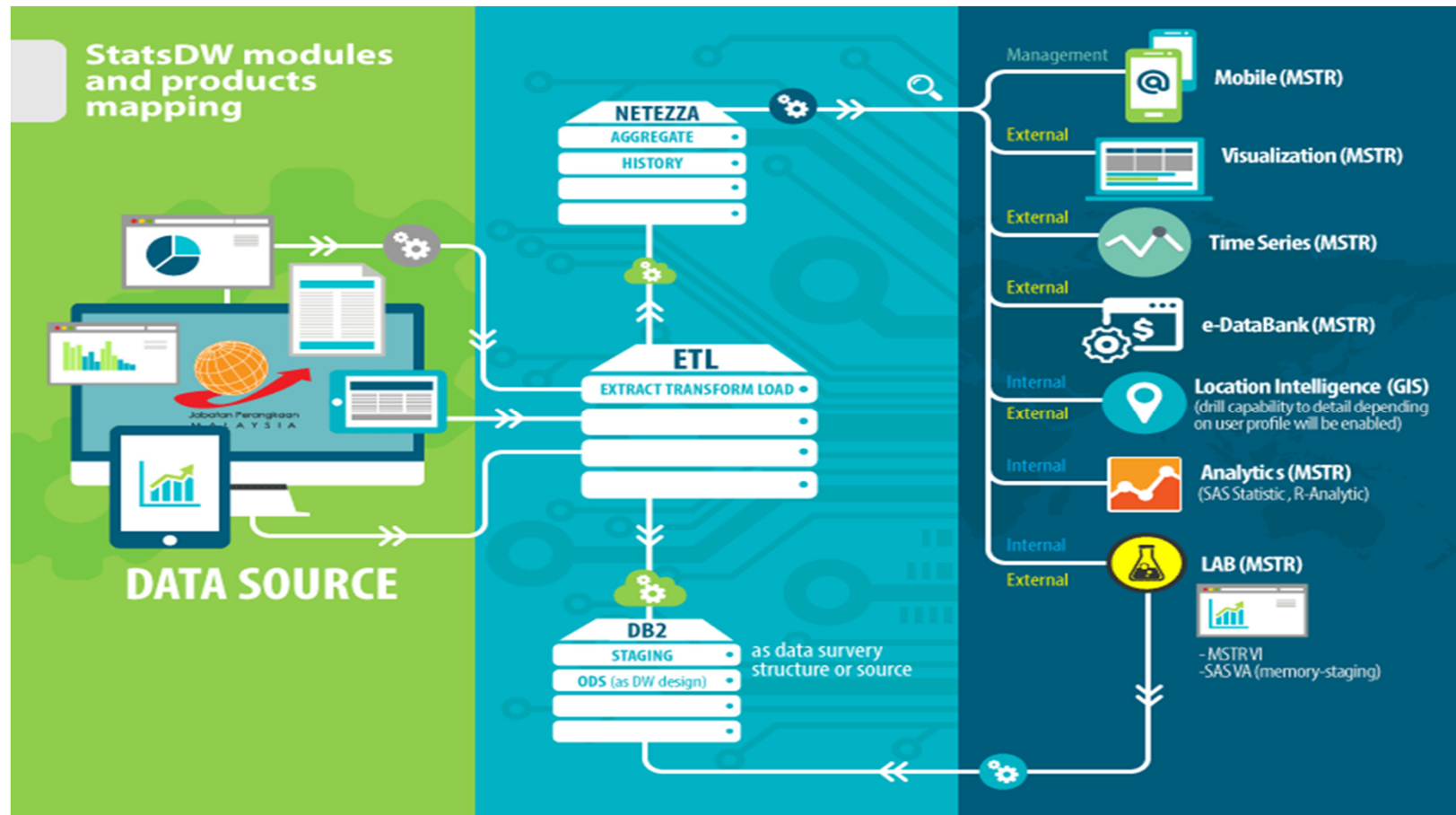


# TRANSFORMATION & MODERNISATION...

## StatsDW

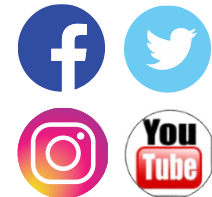
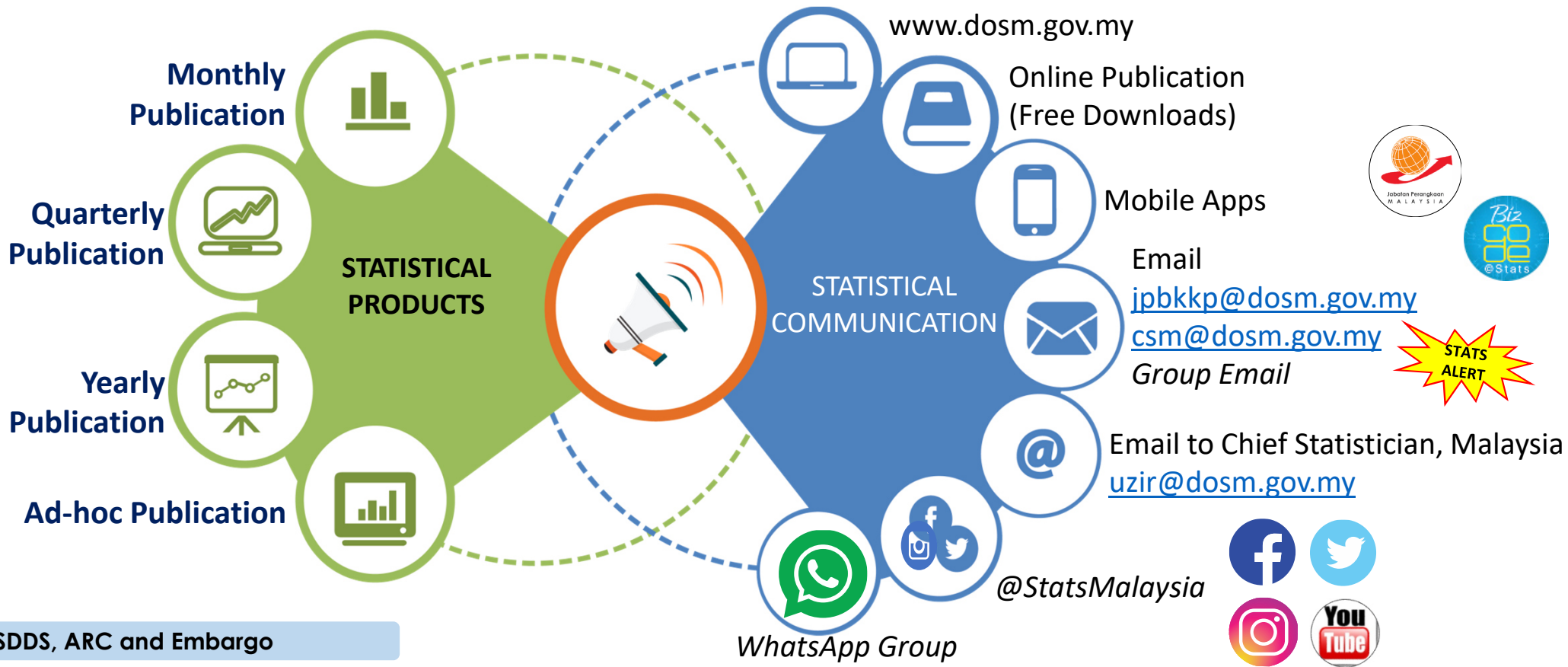


StatsDW is a Data Warehouse that consolidates all micro and aggregate data in an Enterprise Data Warehouse (EDW). It enables a systematic and effective data management and archiving of which will be accessible for reports and analysis purposes. It stores historical data from as early as 1974 from various censuses and surveys conducted by the DOSM as well as compiled data for economic indicators.





## Communication channels & statistical products and services





# TRANSFORMATION & MODERNISATION...



DEPARTMENT OF STATISTICS MALAYSIA  
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## Portal

The screenshot shows the official website of the Department of Statistics Malaysia. It features a navigation menu, a search bar, and several content sections including 'LATEST RELEASES', 'COMING SOON', 'KEY INDICATORS', and 'STATISTICS BY THEMES'. A prominent 'CONGRATULATIONS' banner for the new Executive Committee (EXCO) of the International Association for Official Statistics (IAOS) is visible. There are also links for 'ANNOUNCEMENT', 'LATEST EVENTS', and 'POPULATION CLOCK'.

## eStatistik

The screenshot displays the eStatistik web application interface. It includes a search bar, a 'Free Download' section with filters for 'Main Category' and 'Sub-Category', and a table of publications. The table lists various reports such as 'Quarterly Volume Index of Services', 'Monthly Manufacturing Survey', and 'Quarterly Construction Statistics'.

No.	Title of Publications	Product Type	Release Series	Release Date
1	Quarterly Volume Index of Services	Publication	Fourth Quarter 2019	10 February 2020
2	Special Release 1 - For Civil Engineering Works, Peninsular Malaysia	Publication	January 2020	10 February 2020
3	Quarterly Volume Index of Wholesale & Retail Trade	Publication	Fourth Quarter 2019	10 February 2020
4	Quarterly Construction Statistics	Publication	Fourth Quarter 2019	10 February 2020
5	Monthly Rubber Statistics, Malaysia	Publication	December 2019	10 February 2020
6	Quarterly Services Statistics, Malaysia	Publication	Fourth Quarter 2019	10 February 2020
7	Special Release 2 - For Building and Structural Works, Peninsular Malaysia	Publication	January 2020	10 February 2020
8	Special Release 2 - For Building and Structural Works, Sabah and Sarawak	Publication	January 2020	10 February 2020
9	Special Release 3 - For Mechanical and Electrical Works	Publication	January 2020	10 February 2020
10	Performance of Wholesale & Retail Trade	Publication	December 2019	10 February 2020

## Mobile Apps



MyLocalStats



BizCode@Stats

Some of the publications available in eStatistik...





# TRANSFORMATION & MODERNISATION...

## Dissemination





# CHALLENGES...

## Increasing demand

- Small area & disaggregated data
- Real-time demand for short term policy monitoring
- Requirement for historical data and need for baseline data for formulating, monitoring and reviewing and evaluating of government policy

## The evolution of economies

- Transition of global economic landscape from 'services and knowledge-based economy' to 'digital and sharing economy'
- Spark of new industry revolution (Industry 4.0) which involves more on Artificial Intelligence, machine-learning, robotics, genetics, nanotechnology and biotechnology.

## IT Advancement

- Big data
- Open data
- Trends in the reduction of hard-copy publication of Census and/or survey results, resulting in significant increase in Electronic Dissemination and technology advances in Web GIS, Cloud, and mobile (SMS-Based Technology)

## Comfort Zone



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# THANK YOU

POPULATION & HOUSING  
**CENSUS  
MALAYSIA 2020**

**YOUR DATA IS OUR FUTURE**



**#MyCensus2020**

**7.7.2020**

Make Sure You're  
**COUNTED**

For More Info : [www.dosm.gov.my](http://www.dosm.gov.my)  
[www.mycensus.gov.my](http://www.mycensus.gov.my)



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2016-2030

