USING THE SBR FOR ECONOMIC SURVEY IN MALAYSIA

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Technical Mission of SESRIC An Business And Registers,
Brunei Darussalam
• Foundation are driven by System of National Account
• Inline with Generic Statistics Business Process Model (GSBPM)
• Designed under Integrated Statistical Systems Framework (ISSF)
**GENERIC STATISTICS BUSINESS PROCESS MODEL**

**Generic Statistical Business Process Model (GSBPM)**

- **Sources**
  - DOSM has taken steps to strengthen the processes and quality assurance

- **Collection Process**
  - BR maintenance is continuous activity

- **Output**
  - To ensure the BR is comprehensive, accurate, reliable and timely

**Quality Management/Metadata Management**

1. Specify needs
2. Design
3. Build
4. Collect
5. Process
6. Analyze
7. Disseminate
8. Evaluate

- **1 Specify needs**
  - To ensure the sources are relevant to the user requirement and aligned with the changes in Malaysia business landscape

- **4 Collect**
  - These will involve identifying the units and running the collection process according to suitable formats which can be integrated with the register.

- **6 Analyze**
  - It will prepare the output to be validated and made ready for the release.

- **8 Evaluate**
  - Finally the evaluation phase will provide the information to improve the quality of the register.

The benefit applying the GSPBM is the standardisation of terminology between processes and organisations.
SURVEYS CONDUCTED BY DOSM

**QUARTERLY**
- Quarterly Construction Survey
- Quarterly Services Survey
- Quarterly Employment Survey
- Quarterly National Accounts Statistics
- Survey Of International Trade In Services
- Business Tendency Survey
- BNM-DOSM Joint Survey on International Investment Position
- Rent Survey

**MONTHLY**
- Monthly Distributive Trade
- Monthly Manufacturing
- Monthly Census of Rubber
- Collection of Consumer Prices
- Collection of Producer Prices
- Collection of Building Material Cost Prices
- Labour Force Survey
- Salaries and Wages Survey
- Informal Sector Survey
- Domestic Tourism Survey

**EVERY 5 YEARS**
- Economic Census
- Census of Distributive Trade
- Household Expenditure Survey
- Inter Census Survey

**EVERY 10 YEARS**
- Agriculture Census
- Population and Housing Census
- Census Coverage Evaluation Survey

**EVERY 2 YEARS**
- Household Income and Basic Amenities Survey

**ANNUALLY**
- Annual Manufacturing Survey
- Annual Construction Survey
- Annual Services Survey
- Environment Expenditure Survey
- Annual Census of Crude Oil and Natural Gas Mining Industries
- Survey of Electricity; Gas; Steam and Air Conditioning Supply Establishments
- Survey of Outward Foreign Affiliates
- Consumer Confidence Survey

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(e- SURVEY)
Administrative Records from OGA’s

Integrated Listing (Fieldwork)

Other Sources

Sampling Frame (Sampling Module)

Data Processing - Active Cases (Processing Module)

Data Collection (Operational Controller Module)

GIS

UPDATING THE MSBR BEFORE SURVEY
PROCESSING

Off-line data entry

On-line data entry

e-Survey

Built-in system with ability to perform editing and validation process

Cross-checking between variables

Identify outliers values

Identify missing values

Generate reports for monitoring purpose
ANALYZING

- Data estimation
- Treatment for missing data
- Identifying of outliers
- Treatment of outliers
- Applying sampling weights (for probability sampling)
- Data Analysis Template: (Time Series Data/Indicators/Derived Variables)
- Applied statistical analysis using statistical software (SAS/SPSS & Stata)

Primary Source:
Raw Data Analysis

Secondary Source:
Other Inputs

- Development of analytical framework
- Company profiling (Annual Report, Time Series Data, etc)
- Other sources: secondary data
- Using other indicators (economic & social)

Produce Quality Statistics
DISSEMINATION

1. Free download using e-Statistic through DOSM’s Website
2. Interactive Database Portal
3. MySMS
4. Capsule: Consumers Price Index
5. Statistics Data Warehouse
6. Mobile Application: Selected Indicators & MyLocalStats
7. Mobile Application: BizCode@Stats
8. Info graphics through social media (Facebook/Tweeter/Insta)
Increasing demands of data

• Small area & disaggregated data
• More current and real-time demands
• Demands for historical comparisons and need for baseline data to use in formulating, monitoring, reviewing and evaluating of governments policy another indicators

Continuously Evolved Economy

• 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)
CONCLUSION

Pre-collection

Collection

Processing

Analysis & Dissemination

MSBR (Sampling Frame)

e-Survey

Email, Fax & Phone

Operational Control Information

Manual

Specify Needs, Design, Build

Collect

Process

Analyze, Disseminate, Evaluate

Data Warehouse
TERIMA KASIH & THANK YOU