

New NSO vision: transformation and modernization of the Official Statistical System

Instructions: Click on the link to access each author's presentation.

Chair: Dominik Rozkrut

Participants:

<u>Kabeli Mefane</u>: Transforming and Modernizing National Statistics Systems: Leaving No One Behind

Malathi Ponnusamy: Building a National Data Infrastructure for Malaysia's Future: A Focus on Data Production and Innovation

Malgorzata Tarczynska-Luniewska*: Enterprises' ESG practices and sustainable development: challenges and opportunities for official statistics.

Zhihua Tang: Opportunities and Challenges Faced By National Statistical Offices In The Digital Era: The Recent Experiences From China

<u>Fiona Dawe</u>: Driving innovative and ambitious statistical change with user needs at the core

*Work presentation not available or non-existent









Transforming and Modernizing the National Statistics System by Kabeli Mefane, Lesotho Bureau of Statistics







Background

Africa's Five Thematic Areas for Transformations

How Integrated Systems (IS) and New Technology (NT)are core to five thematic areas

IS and NT significance, benefits, and applications within NSS

Success stories of Transformation and Modernization in Africa

Inclusivity in statistical production

Challenges and Opportunities







Background

National statistics systems (NSS) in Africa serve as the backbone of evidence-based policymaking, providing critical data for informed decision-making and monitoring progress toward development objectives. "However, many African countries face challenges such as outdated methodologies, inadequate coverage, and limited data accessibility, which hinder the effectiveness of their NSS". Therefore, NSSs in Africa have to improve their approach to generating statistics. In light of these, the Statistical Community in Africa has undertaken to pursue programs that are geared toward the transformation and modernization of their systems.









How integrated systems (IS) and new technology (NT) are core to 5 thematic areas

IS facilitate seamless <u>coordination</u>
NT enables real-time <u>collaboration</u> and data sharing

IS allow for the efficient <u>dissemination</u> while NT supports interactive <u>data visualization and</u> storytelling

IS streamlines the process of statistical production, NT automates repetitive tasks

IS facilitates the <u>integration of new data sources</u>. NT, including big data analytics, AI, and ML, enables <u>innovative approaches</u>

Technology-enabled <u>training</u> programs and <u>capacity-building</u> initiatives enhance the skills and capabilities of NSS staff



Significance, Benefits, and Application within NSS

- Enhanced Data Quality
- Increased Efficiency
- Inclusivity and Equity

- Real-Time Data
- Improved Decision Making
- Cost-Effectiveness

Significance

Applications

Benefits

- Mobile Data Collection
- Big Data Analytics
- Geospatial Analysis
- Cloud Computing
- Machine Learning and Al Data
 Visualization Tool
- Digital Survey Tools



Transformation & modernisation in África

COMESA

Harmonised

Consumer

Price Indices

Lesotho Data

for Sustainable AfDB

Development

project

South African mapper

Statistical

Quality

Assessment

Framework

(SASQAF)

The Africa Information Highway

(AIH)

initiative by

Lesotho

land cover

online tool

(EOSTAT)

Most African

NSOs

including

Lesotho use

mobile data

collection tools

Lesotho Land

Cover

Microsoft, Open Carlos Ting atistics Tool

through FAO

Earth

Observation

Statistics

(EOSTAT)

Usage of

geospatial data

to map poverty

in Tanzania

Ghana

Statistical

Services

(GSS),

Vodafone, and

the

Flowminder

Foundation

routine mobility

analysis

The Eastern

Africa

Statistical

Training Centre

(EASTC) in

Tanzania

A regional hub

for data

SCIENCE Powered by Bing

Rwanda (

between NISR

and UNECA)



Leaving No One Behind

Enhanced Data
Collection Methods

Improved Data Quality

REHIND

Disaggregation of data

Real-time Monitoring and Reporting

Tailored Approaches for Inclusivity

Data Privacy and Ethical Use

Integrated Information Systems

Data Accessibility and Dissemination

Capacity building to empower local stakeholders

Partnerships and Collaboration



Some of the Challenges and Opportunities



References

- - https://hdl.handle.net/10855/49338"

UNECA, https://hdl.handle.net/10855/49373"

- "United Nations. Economic Commission for Africa; (2022-03). Progress report on the transformation and modernization of national statistical systems in Africa. UNECA Committee of Experts of the Conference of African Ministers of Finance, Planning and Economic Development Meeting (40th: 2022, May 11 13: Dakar, Senegal). Addis Ababa:. © UNECA,. https://hdl.handle.net/10855/48311"
- "United Nations. Economic Commission for Africa; United Nations. Economic and Social Council; United Nations. Economic Commission for Africa; United Nations. Economic and Social Council (2022-08). Statistical capacity development in Africa: progress report for 2020–2022. UNECA Statistical Commission for Africa Meeting (21) 2022-2022. UNECA Statistical Commission for Africa Meet



Kea leboha, Thank you, Merci, Gracias









BUILDING A NATIONAL DATA INFRASTRUCTURE FOR MALAYSIA'S FUTURE: A FOCUS ON DATA PRODUCTION AND INNOVATION

PRESENTED BY: MALATHI PONNUSAMY



OUTLINE

- 1. Introduction
- 2. Strengthening of the national statistical system (SNSS)
- 3. Data Governance

- 4. Data Integration
- 5. Innovation

- 6. Modernization in data collection & storage
- 7. Modernization in data dissemination
- 8. Conclusion





INTRODUCTION

DOSM as the Official National Statistics Agency

The main government agency entrusted and responsible for collecting, interpreting and disseminating timely and up-to-date statistics.

1949

Statistics Malaysia was established in 1949 under the provisions of the Statistics Ordinance 1949 and was known as the Bureau of Statistics

1965

The Bureau of Statistics has changed its name to the Department of Statistics Malaysia and operates under the provisions of the Statistics Act 1965.

2018

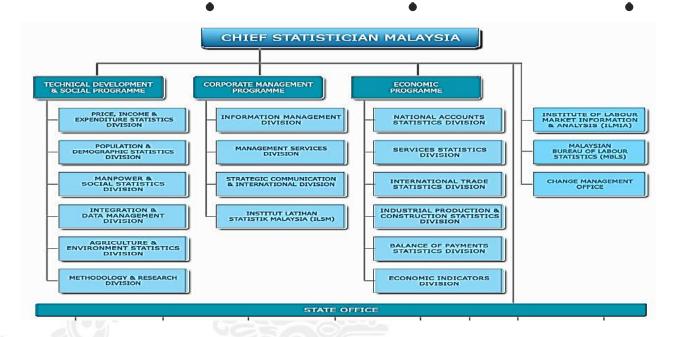
The Department of Statistics Malaysia is the main government agency under the Ministry of Economic Affairs

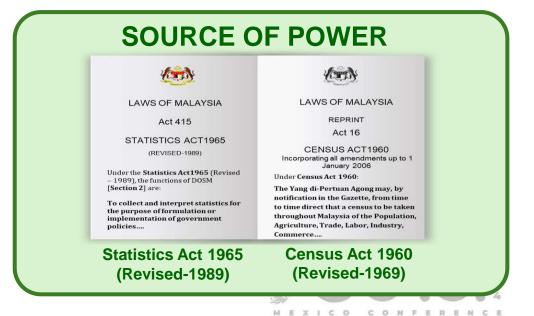
2020

10 March 2020, the
Department of Statistics
Malaysia has been placed
back under the Prime
Minister's Office regulated by the Minister
in the Prime Minister's
Office (Economy)

2023

In parallel with the formation of the Unity Government, the Department of Statistics Malaysia is the main government agency under the Ministry of Economy







INTRODUCTION

IMPORTANCE OF INTEGRATION, MODERNIZATION & INNOVATION

Data Overflow from Multiple Sources

- Data as a commodity is of high value and available in various agencies and platforms.
- Requires efficient and integrated data resource management.
- Requires a system framework towards holistic statistical production.

Data Requests Are Increasingly Complex

 The need for complex and granular information down to the smallest geographic level and according to various specific demographic characteristics.





SNSS

Continuous modernization and innovation efforts towards effective service delivery





Technological Revolution

- Support to change the integration platform and coordination of high volume data that is more efficient and effective.
- Parallel to the era of digital government and big data for the processing, structuring, analysis and handling of data in a better and effective way and save costs.

Environmental Change

- The uncertainty of the global situation requires preparedness in providing the latest inputs.
- Rapid economic evolution and business models.
- Increasingly complex social and environmental management.





STRENGTHENING THE MALAYSIA STATISTICAL SYSTEM

The strengthening of the National Statistical System will have a positive impact, including ensuring the availability of more comprehensive data in the government sector when formulating short-term and long-term national policies.

1 National Statistics and Data Council

Formation of a council which acts as the highest advisory body in giving direction to the national statistical system and the coordination of information at national level

Amendments of Statistics Act 1965 (Revised 1989)

Empower and support the strengthening of the National Statistical System

- 3 DOSM as the Central Agency of Statistical Services
 Responsible in coordinating and controlling the production of statistics from Ministries, Departments and government agencies
- Chief Data Officer (CDO)
 As an agent of the coordination mechanism, access and cooperation of data sharing between agencies

National Big Data Analytic Centre (NBDAC)

Establish NBDAC as a service center for the development of national big data analytics products across sectors

Change Management Office (CMO)

Establish the CMO that set action plan and strategy, execute and monitor the implementation of the Strengthening of NSS

Capacity Building:

- Organizational Restructuring
- Subject Matter Expert
- Statistics Intelligence Centre of Excellence

Strengthen human resources, career advancement of subject matter experts and building capacity for developing statistical literacy



DATA GOVERNANCE: CORE AREAS

There are 6 core areas for Data Governance Framework In Malaysia

1. People and Culture

- Chief Data Officers (CDOs)
- Statistical Competencies
 Development Programme (SCDP)
- Data Scientists SAS
- Big Data Analytics Core Team
- Subject Matter Experts (SMEs)

2. Policies, Standards and Guidelines

- Statistics Act 1965 (revised 1989)
- Census Act 1960
- DOSM Strategic Plan
- General Statistical Business Process Model (GSBPM)
- Generic Activity Model for Statistical Organisations (GAMSO)
- Statistical Business Architecture (SBA)
- Micro Data Dissemination Policy

3. Data Quality

- Generic National Quality Assurance Framework (g-NQAF)
- Sound Methodology

4. Technology

- National Enterprise-Wide Statistical System (NEWSS)
- Integrated Population Census Syste (MyIPCS)
- StatsBDA
- StatsDW
- StatsDigital
- Stats Geoportal
- OpenDOSM Next Gen.
- Dashboards

5. Data Protection & Privacy; Ethics; Security

- Public Sector Data Sharing Policy (DPDSA)
- National Data Sharing Policy (NDSP)
- Personal Data Protection Act 2010 (PDPA)

6. Partnership

- MoU's for Data Sharing
- Collaboration with Agencies

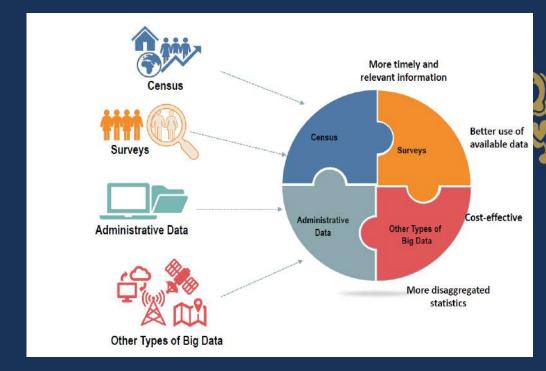
Source: United Nations' "Data Strategy of the Secretary-General for Action by Everyone, Everywhere, 2020-2022"





INTEGRATION

- ☐ Small Area Statistics: My Local Stats
- External Trade: Malaysia External TradeStatistics by State
- Population & Housing Census: MalaysiaPopulation & Housing Census 2020
- Agricultural: The Agricultural Analytical System
- □ PADU: Central Database Hub









MEMORANDUM OF UNDERSTANDING (MoU)



GOVERNMENT/ PRIVATE AGENCIES















16 **GOVERNMENT** UNIVERSITY

















Universiti Kebangsaan Malaysia

UNIVERSITI

MALAYSIA MAP PERLIS















INTERNATIONAL









PRIVATE UNIVERSITY

















PRIVATE















STRATEGIC COLLABORATION





















My Local Stats

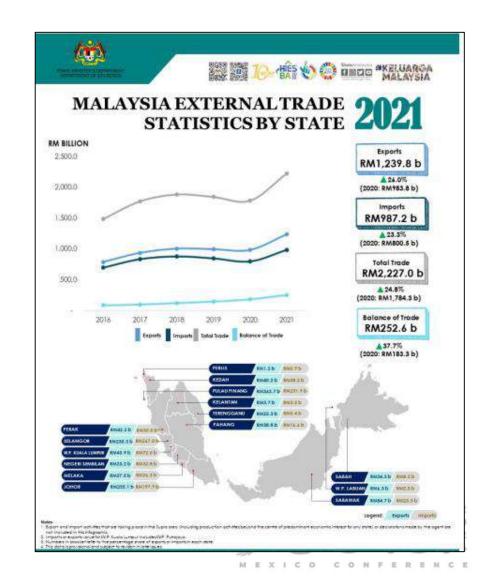
- My Local Stats, is a publication of economic and social statistics which is comprehensive at the district level combines survey data and other types of auxiliary data (census and administrative data).
- Covering 20 Indicators: basic information; population; housing; energy use; household income and expenditure; education; health; welfare services; public safety; communication and recreation; internet and social media; basic facilities; gross domestic product; consumer price index; exports and imports; agriculture; mining and quarrying; manufacturing; construction and services.
- The compilation is **based on Handbook on Social Indicators** which was published by the United Nations Statistics Division (UNSD) (https://www.dosm.gov.my/v1/uploads/images/Online%20 Services/MyLocal%20Stats/MyLocalStats Web Guide HD.mp4).





MALAYSIA EXTERNAL TRADE STATISTICS by STATE

- Presents statistics on annual Malaysia's External Trade pertaining to imports and exports at the state level according to major / selected commodities and country of origin and destination for the period of 2019 to 2021.
- This statistics are generated from Trade Enterprise Characteristics (TEC) module under Statistics Big Data Analytics (STASBDA), Department of Statistics Malaysia which is an initiative to integrate two different statistics domain, namely, international merchandise trade database and Malaysia Statistical Business Register (MSBR) (https://statsbda.dosm.gov.my/).
- This statistics provide imperative information to policy makers in formulating strategic planning for states involved in international trade and dominate Malaysia's exports (https://newss.statistics.gov.my/newss-portalx/ep/epLogin.seam).





POPULATION & HOUSING CENSUS 2020

 Administrative data will be integrated with census data to complement and enrichment of census data.

COMPLIMENT CENSUS DATA

- Prison Department Prisoner
- National Anti Drug Agency
 Residents of Drug Rehabilitation Center
- Welfare Department Homeless
- Ministry of Health
 Patient (eg: Mental Health)



PURPOSE

To obtain comprehensive and detailed stock and profile of population and housing at a particular period as a benchmark for demographic and socio-economic characteristics of the population.

LEGISLATION

Census Act 1960 (Revised-1969)



ENRICHMENT CENSUS DATA

- Civil Service Department Government Staff (HRMIS)
- Welfare Department Disability people
- Ministry of Women, Family and Community Development Number of residents in Institutional living quarters
- National Registration Department Citizen resident
- Jabatan Kemajuan Orang Asli Aborigins
- Pos Malaysia
 House Address
- Tenaga Nasional Berhad House Address
- Telekom Malaysia
 House Address
- Election Commission of Malaysia Registration of Voter

- Immigration Department
 Non-Citizen resident
- Lembaga Tabung Haji
 Number of pilgrims and Tabung
 Haji depositor
- Department of Survey and Mapping
 Geospatial information
- RISDA Small estate holder
- Implementation Coordination Unit eKasih data (financial assistance)
- Ministry of Health
 Number of nurses dormitory
- Income Tax Tax Payer
- Kementerian Pendidikan Malaysia Higher Institution Student

MEXICO CONFEREN





THE AGRICULTURAL ANALYTICAL SYSTEM

- This new platform was created to facilitate access and for the purpose of analysis of national as well as local-level agricultural data
- The Agricultural Analytical System is an initiative of the Department of Statistics Malaysia (DOSM) under the Public Sector Data Analysis (DRSA) 2.0 project.
- This platform displays agriculture statistics that focused on **four (4) products** namely oil palm, rubber, poultry (chicken and duck) and fisheries (marine and aquaculture).

(https://drsa-agriculture.netlify.app/index.html).







PADU: CENTRAL DATABASE HUB



INTRODUCTION TO PADU

Introduction

PADU contains profiles of individuals and household members including citizens and permanent residents aged 18 years and over in Malaysia. This profile information will be updated regularly through the integration of administrative data from various sources. Through this ecosystem, people can continuously improve and update information in the PADU system.

PADU Objectives

- Providing a secure, comprehensive and "near real time" main country database for regular analytical production and digitization without leaks.
- 2. Basic formulation and process of making decisions based on data.
- Balancing the fiscal position through targeted policy implementation.

@ PADU's goal

- 1. Increase the efficiency of the Government service delivery system.
- 2. Carry out confirmation in the use of limited resources.
- Carrying out strengthening of the social system through increasing economic and people's welfare.
- Close the socioeconomic gap by meeting people's needs and balancing development.



STRATEGIC COLLABORATION







































INNOVATION



- Unlocking spatial insights: GIS technology advancements in Malaysia
- Big data for official statistics: Malaysia's experience
- Modernization in data collection and data storage







GEOSPATIAL TECHNOLOGY FOR MYCENSUS 2020



https://statsgeo.mycensus.gov.my/geostats/

BIG DATA FOR OFFICIAL STATISTICS: MALAYSIA'S EXPERIENCE



Statistics Big Data Analytics (STATSBDA)



Trade by Enterprise Characteristics (TEC)

involves integration of high volume of structured data with fuzzy matching technique



Price Intelligence (PI)

modernizing data collection method with web crawling technique



Public Maturity Assessment on Official Statistics (PMAOS)

uses text mining technique for sentiment analysis







Nowcasting Malaysia's GDI with Machine Learning

JOB MARKET INSIGHTS



Informal Sector And Micro Industry (SIIM)

Database

Integrating administrative data with non-traditional sources like social media, aiding government decision-making...



Earth Observation (EO)

Using satellite imagery for environmental insights and improving official statistics' quality.



Social Protection Data Management

DOSM leads in preparing a centralized Social Protection Database, enhancing social protection policies



FUTURE RESEARCH

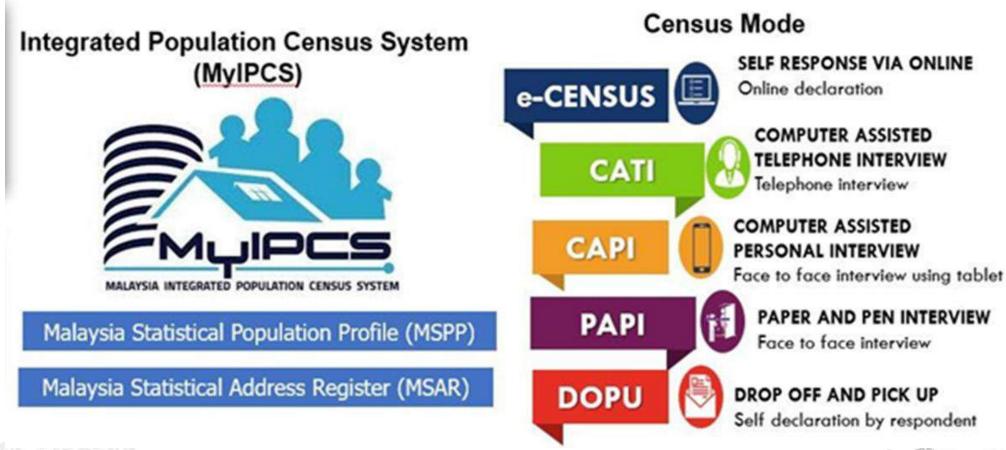
Mobile Positioning Data (MPD)

a dynamic proxy indicator assessing economic activity and human commuting patterns.

2 0 2

C

MODERNIZATION IN DATA COLLECTION

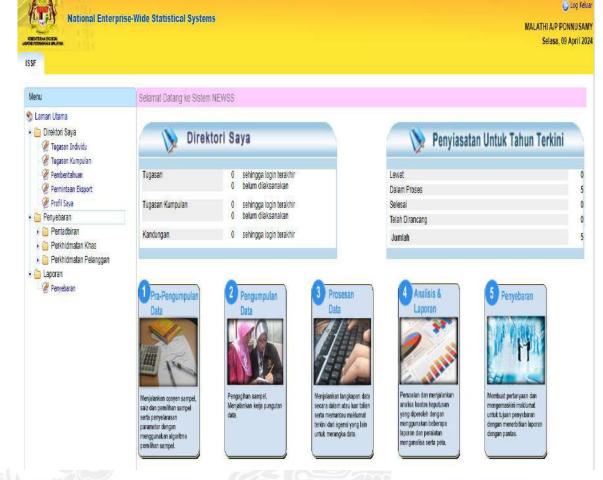






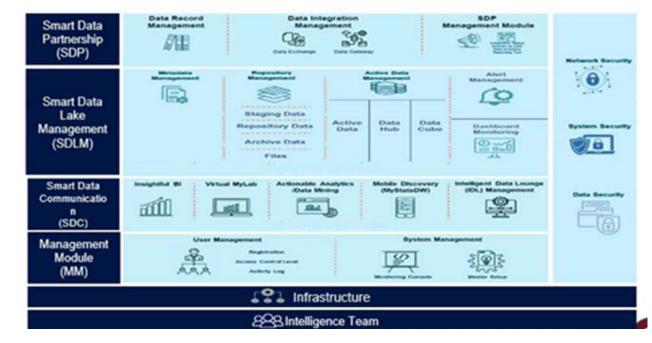
MODERNIZATION IN DATA STORAGE







StatsDW will facilitate the storing, retrieving, processing activities of data for more efficient organising, administration, governing and securing of datasets. Now, StatsDW has enable DOSM to become the central data repository platform to other government agencies and has integrate with several government agencies system through API for data sharing.









DISSEMINATION

- Online services :DOSM Official Portal, Visual interactive, Dashboard
- Social media platform : Facebook, Twitter, Instagram, Youtube
- Media release : Press Statement, Stas Alert, Infographics, Newsletter
- Mobile applications: Bizz Code, Msic Code, My Local stats





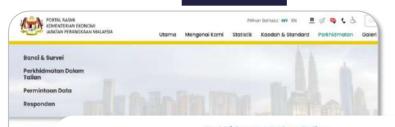




ONLINE SERVICES

Portal DOSM











Official Portal



- e-Statistik
- 2. StatsDW
- StatsBDA
- 4. Stats Geoportal
- Stats Digital
- 6. MysIDC
- 7. MyCensus Portal
- 8. Economic Census Portal
- MyAgriCensus Portal

Visual Interactive



- Malaysia External Trade Statistics Online (METS Online)
- 2. Business Cycle Clock
- 3. Malaysia CPI Inflation Calculator
- 4. My Local Stats
- 5. Population Quick Info

Dashboard



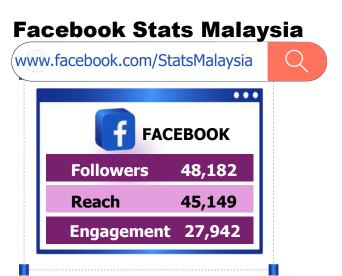
- 1. Agricultural Analytical System
- Tourism Dashboard
- 3. Malaysia Economic Recovery Dashboard
- 4. MyPrice Dashboard
- National Occupational Accident & Disease Statistics
- 6. Job Market Insights
- 7. My Job Profile

- Malaysia Labour Market Interactive Data (MyLMID)
- Population and Housing Census of Malaysia Dashboard (MyCenDash)
- 10. OpenDOSM
- 11. Kawasanku
- 12. MyDemography
- 13. Malaysia Input-Output Table (MyIOT)
- 14. SDG Dashboard



MODERNIZATION IN DATA DISSEMINATION

DOSM Social Media Followers

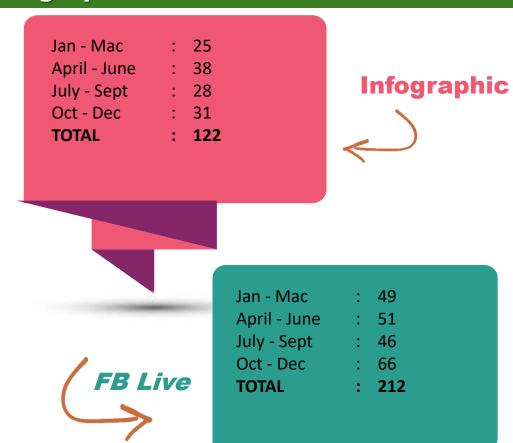








Infographic dan *FB Live*



(Updated until 29 December 2023)

MODERNIZATION IN DATA DISSEMINATION

Media Release, 2023

a. DOSM Interview on Electronic Media

NEWSPAPER

 Jan-Mar
 : 121

 April-June
 : 98

 July-Sept
 : 243

 Oct-Dec
 : 140

 Total
 : 602

TV

 Jan-Mar
 : 121

 April-June
 : 123

 July-Sept
 : 179

 Oct-Dec
 : 36

 Total
 : 459

RADIO

 Jan-Mar
 :
 3

 April-June
 :
 29

 July-Sept
 :
 9

 Oct-Dec
 :
 45

 Total
 :
 86

ONLINE

 Jan-Mar
 : 1,144

 April-June
 : 1,119

 July-Sept
 : 4,476

 Oct-Dec
 : 3,647

 Total
 : 10,386

b. Media Coverage (Online and Print)





 Jan-Mac
 : 1,265

 April-Jun
 : 1,280

 Julai-Sept
 : 1,372

 Okt-Dis
 : 3,787

 JUMLAH
 : 7,704

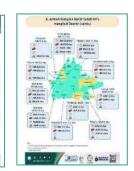


(Updated until 29 December 2023)

Newsletter, 2023













MODERNIZATION IN DATA DISSEMINATION

Mobile application



Both of these applications can be downloaded via the Apps Store (IOS) or Play Store (Android) with the search words **DOSM** and **BizCode**

DOSM

Statistics at the district level in the form of infographics that are easier to understand by all levels of society. This information is introduced through the mobile application of the interactive system. MyLocal Stats will help users to access statistics up to the district level for local development planning.











BizCode

A platform for sharing code and statistical classification activities based on international classification standards. BizCode@Stats makes it easy for users to get codes and information interactively and mobile.









CONCLUSION

- 1. Statistics, spearheaded by DOSM, are pivotal for shaping economic development.
- 2. DOSM's continuous efforts enhance the effectiveness of the National Statistical System.
- 3. Collaborative initiatives aim to transform public perception of statistics, emphasizing their significance.
- 4. The implementation of centralized databases, partnerships, and accessibility measures ensures the integration of reliable data.
- 5. Continuous technical expertise, benchmarking of best practices, and capacity building are crucial for producing sophisticated statistical products.
- 6. Investments in human resources and technology, particularly in data science, analytics, and skilled data scientists, are necessary for sustainable progress.





Thank you









Not available

Monika Rozkrut and Malgorzata Tarczynska-Luniewska:

Enterprises' ESG practices and sustainable development: challenges and opportunities for official statistics



Opportunities and Challenges Faced by National Statistical Offices in the Digital Era: The Recent Experiences from China

Mr. LYU Haiqi, Mr.XU Yipin,Ms. ZHAO Junli and Ms.TANG Zhihua Research Institute of Statistical Science National Bureau of Statistics of China(NBS)









Opportunities



Enriched data sources

Effective techniques

New releasing channels

Challenges



Rising demands for official data faced More competitions







Content

Active Exploration & Innovative Practices of NBS in the Digital Era

CASE 01

Digital Economy
Accounting

CASE 02

Statistical Cloud Program

CASE 03

Remote Sensing
Application

CASE 04

The Application of Thirdparty Payment Data in Retail Sales Statistics





Active Exploration & Innovative Practices

Statistical Monitoring and Accounting of the Digital Economy



Classification standards & Calculation of value-added accounting in the core industries of the digital economy



Statistical system of new industries, new formats, and new business models

Statistical system for strategic emerging industries







Active Exploration & Innovative Practices

Accelerating the Digital Transformation of Statistics



Statistical cloud program



Online reporting system



Data collection through handheld terminal devices



Smart Statistics







Active Exploration & Innovative Practices

Deepening the Application of Big Data



Agricultural statistics: the application of remote sensing technique



Population statistics: the application of administrative records and cellular signaling data



Retail Sales statistics: the application of online consumption and Third-party Payment data







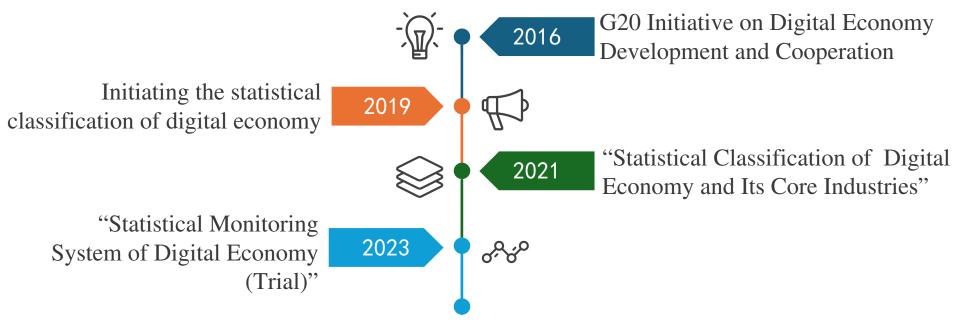
CASE 01 Digital Economy Accounting







CASE 01 Digital Economy Accounting



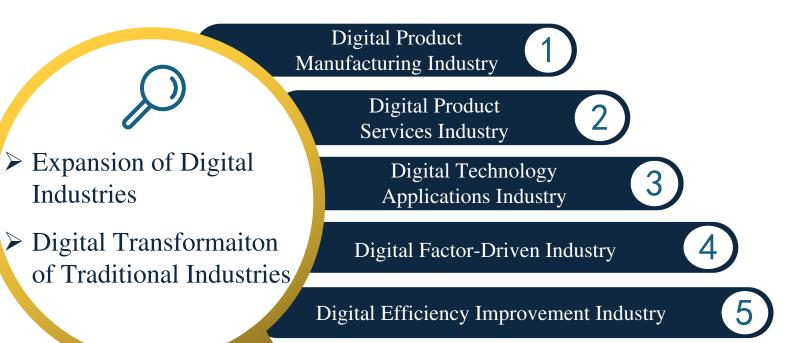
Inclusion of Digital Economy in the Fifth National Economic Census, Generating comprehensive and industry-wide digital economy statistical data







CASE 01 Digital Economy Accounting





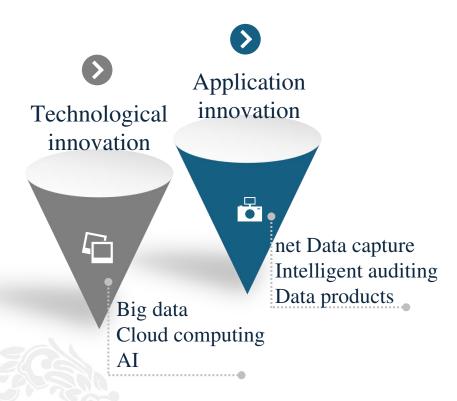












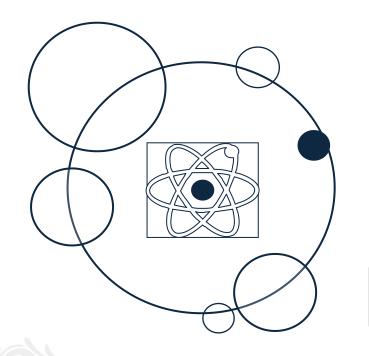
- Intelligent centralized management
- Statistical workflow reengineering

Standardized construction of statistical informatization









ONE-STOP Service

website portal and users

ONE-STOP Management

business processes and data resources







Intelligent centralized management



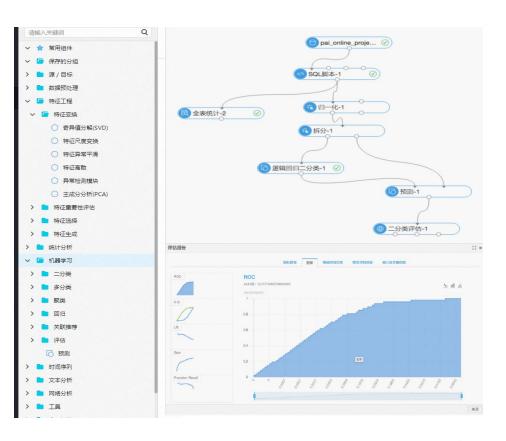








- ✓ Over 140 optimization algorithms
- ✓ One-stop solution for processoriented modeling
- ✓ Drag-and-drop operations
- ✓ Visual configuration capabilities









Data visualization



















Background

For a long time, the household interview has engaged in China's agricultural statistics to obtain survey information.

With the rapid development of China's economy and society, this survey method faces more and more challenges.

How to address these issues?

Need to strengthen the ability to collect data directly from the source (ground).

Conducted the application research and practice using remote sensing big data during the past 20 years.





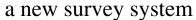


A new survey system

Establish a "space-air-ground" three-dimensional modern agricultural statistical survey system













Remote sensing satellites form a "space based" survey capabilities



Drones complement the "in-air" survey capabilities



PAD solidifies "ground" survey capabilities







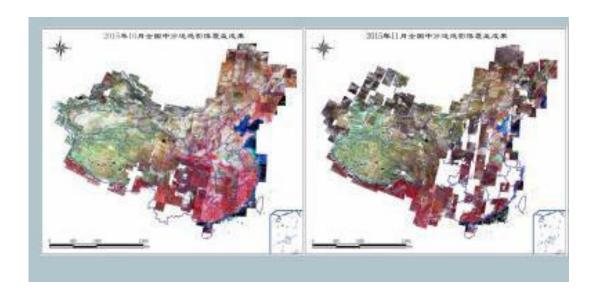




A new survey system

Agricultural survey has entered a new stage of "ground survey" from "household survey".

- ➤ Combination of satellite, drone, and PAD
- ➤ Needs of ground survey in various survey scenarios have been met









Specific operational applications

Established a wide coverage of "ground survey" network

- ➤ Automatically recognize drone images.
- ➤ A total of nearly 9,000 survey villages have been established
- Three randomly selected grid of 200m × 200m in each sampled village.
- ➤ Almost 1.01 million plots were randomly selected for survey.





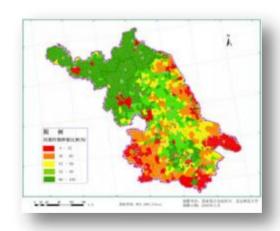




Specific operational applications

Measure the acreage of large-scale major crops

- ➤ Using satellite remote sensing images with a spatial resolution of ten to sixteen meters.
- According to the planting characteristics of crops in different regions, suitable remote sensing image classification methods are adopted.
- ➤ Rice, wheat, corn, soybean, cotton and etc.





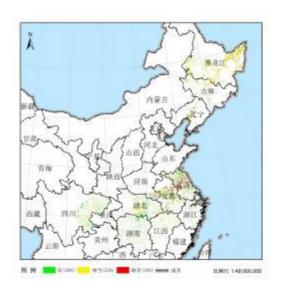




Specific operational applications

High-frequency monitoring of main crop growth.

- ➤ Monitor the growth of main crops 2-3 times per month during the key growth periods.
- ➤ Reflect the overall growth situation, timely helping crop growth judgment and yield estimation.





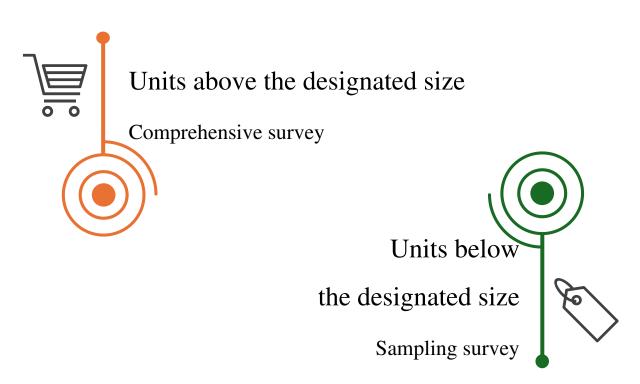


















Challenges in Retail Statistics

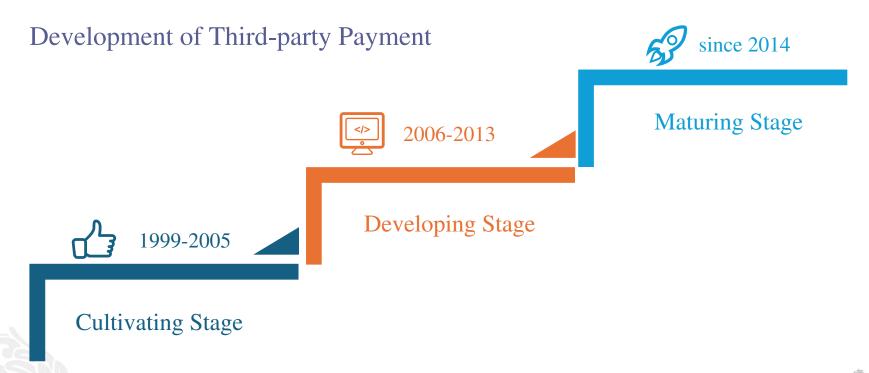


What is Third-party Payment?















1 By transaction type

Third-party Payment Business Modes

By fund flow

C2C, C2B, B2C, B2B

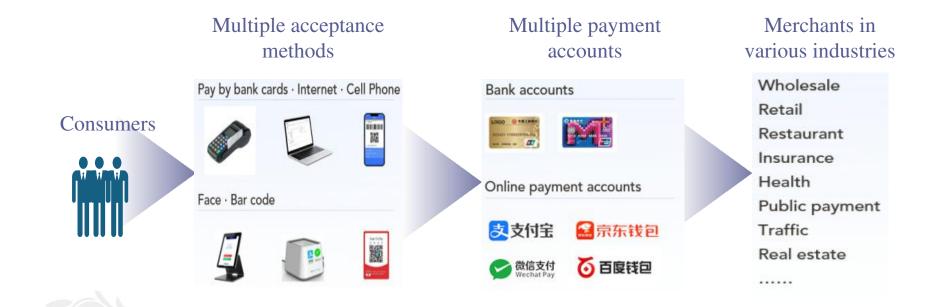
C2B: Consumers pay to merchants when shopping or enjoying services. It is the primary transaction type of personal retail payments.

3 By payment method









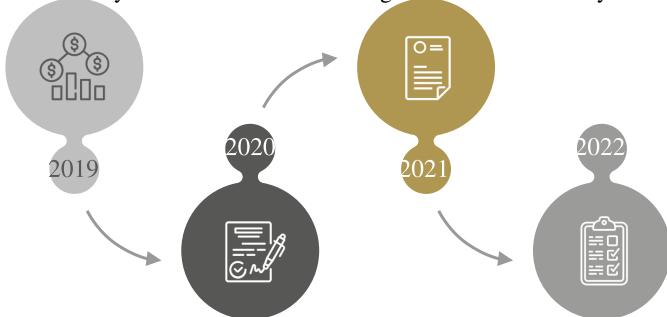






Implemention of the Thirdparty Payment Survey

Establishment of a "Consumption Statistics Big Data Joint Laboratory"



Research on the application of third-party payment data

Deepening the application of Third-party Payment data









Implemention of the Third-party Payment Survey

Purpose of the survey

- Transaction volume
- Transaction structurethe market
- Development situation



Scope of the survey

Licensed non-bank payment institutions.



Content of the survey

Transactions of goods and services provided by authorized merchants.

- Payment transaction amount,
- Number of payments,
- Number of authorized merchants,
- Data grouped by product and service categories.









Establishment of a "Consumption Statistics Big Data Joint Laboratory"



Supplementing the evaluation of retail sales of consumer goods below the designated size



Supplementing data sources of service consumption market statistics

- Tracking and monitoring transaction data
- Measuring and calculating monthly growth of turnover



Monitoring holiday consumption market and carrying out related statistics

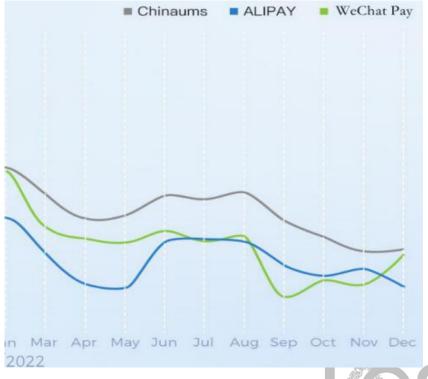






Supplementing the Evaluation of Retail Sales of Consumer Goods below the Designated Size

Figure:
Growth rate of
monthly turnover of
sample merchants
below designated size
using third-party
payment system (%)









CASE 04 The Application of Third-party Payment Data in Retail Sales Statistics

Supplementing data sources of service consumption market statistics

Figure: Turnover Growth Rate in the Health Industry (%)









CASE 04 The Application of Third-party Payment Data in Retail Sales Statistics

Subject Research



Completed the research on the application of third-party payment data in retail sales statistics



Research on the application of acquiring institution transaction data in consumer market statistics (in 2023)



Research on the application of Third-party Payment data in consumption market statistics based on machine-learning Algorithms (in 2024)





The Recent Experiences from China





Digital Economy Accounting



Statistical Cloud Program



Remote sensing application



http://www.stats.gov.cn/

The Application of Third-party
Payment Data in Retail Sales Statistics











NBS of China

tangzhh@stats.gov.cn









Driving innovative and ambitious statistical change with user needs at the core

Fiona Dawe







Why do we need to measure the population?



Planning and development



Public health and social care



Housing



Education



Transport





Population statistics have always evolved alongside society







Our vision: transforming population and migration statistics

The census gives us a brilliant, detailed snapshot of England and Wales **but...**Accuracy declines from census day. Local detail quickly out-of-date

Alternative data sources could provide more frequent, inclusive, and timely statistics:

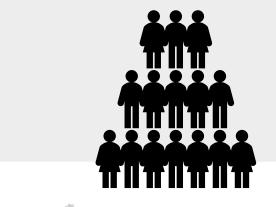
Administrative data will be at the core of this system.

More local information every year, not just once a decade

More responsive to society's changing needs

Population estimates: more consistent level of detail and accuracy over time

Migration estimates: observed patterns, not stated intentions





Consultation on the future of population and migration statistics in England and Wales

Ran from June to October 2023

Proposals included:

- Improved population statistics
- Estimates of how and where we live and the make-up of our communities
- Estimates comparing different attributes at local level
- Analysis of outcomes over time

Do these meet your needs? What needs don't they meet?





Raising awareness

- Conferences
- Webinars
- Meetings
- Events

- Roundtables
- Emails
- Newsletters
- Social Media



706 Responses

Sector	Count of question "What sector does the organisation belong to?"
Individual response	366
Local government	147
Charity or voluntary	52
Central government	34
Other public body, e.g., health, transport, or emergency services	31
Business, industry or commercial	21
Academia or research	18
Religion or faith	8
Devolved administration and associated bodies	9
Other (includes sectors such as Think Tanks, Journalism, Media)	20

National Statistician and Inclusive Data

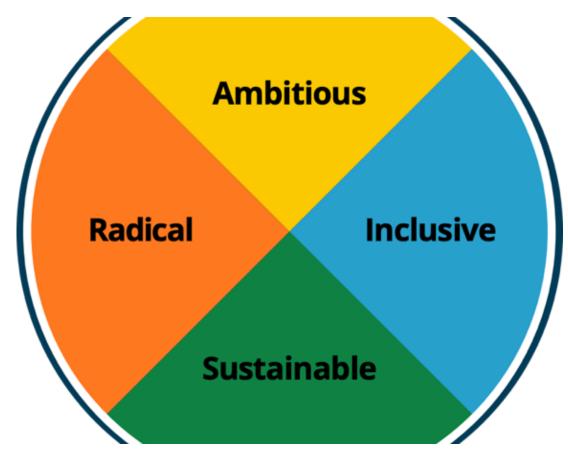
Inclusive Data Task Force: An independent task force with a strategic purpose - to make a radical step-change in inclusivity of UK data and evidence

National Statistician's Inclusive Data Advisory Committee: monitor progress of the implementation of the IDTF recommendations and give advice on a range of issues.

Focus on Children and Young People and Disability

Future innovation

- Supplementary surveys
- New administrative data sets
- Differential models
- Collaboration with Local Authorities







Current and Future Engagement

Current Examples	Moving forward Examples
Central and Local Information Partnership (CLIP) subgroup	All those plus
Consultations	Partnerships/case studies
Conferences such as BSPS	ONS Local
Informal communications through business teams	Webinars and events
Seeking feedback on our publications	Options for building capability such as demography "masterclass"
Social media – Tweeting statisticians	





Sustainable engagement

10 Historical













Thank you





