



"Harnessing the Power of Data and Statistics for a Future-ready Filipino and Filipina Youth"

2ND PHILIPPINE DATA FESTIVAL

03-04 October 2023 | Century Park Hotel, Malate, Manila

Harnessing Microdata: Using PSA Data Archive and Data Enclave for Informed Decision-Making and Research

5-B - Data at Your Fingertips: Exploring PSA's Public Dissemination Channels

JING B. JALISAN

Information Technology Officer III
Philippine Statistics Authority



Outline of the Presentation

❖ Background

- PSA as a producer of statistics

❖ What is microdata?

❖ Use of Statistical Microdata

❖ Challenges in disseminating microdata

❖ Types of Microdata Files

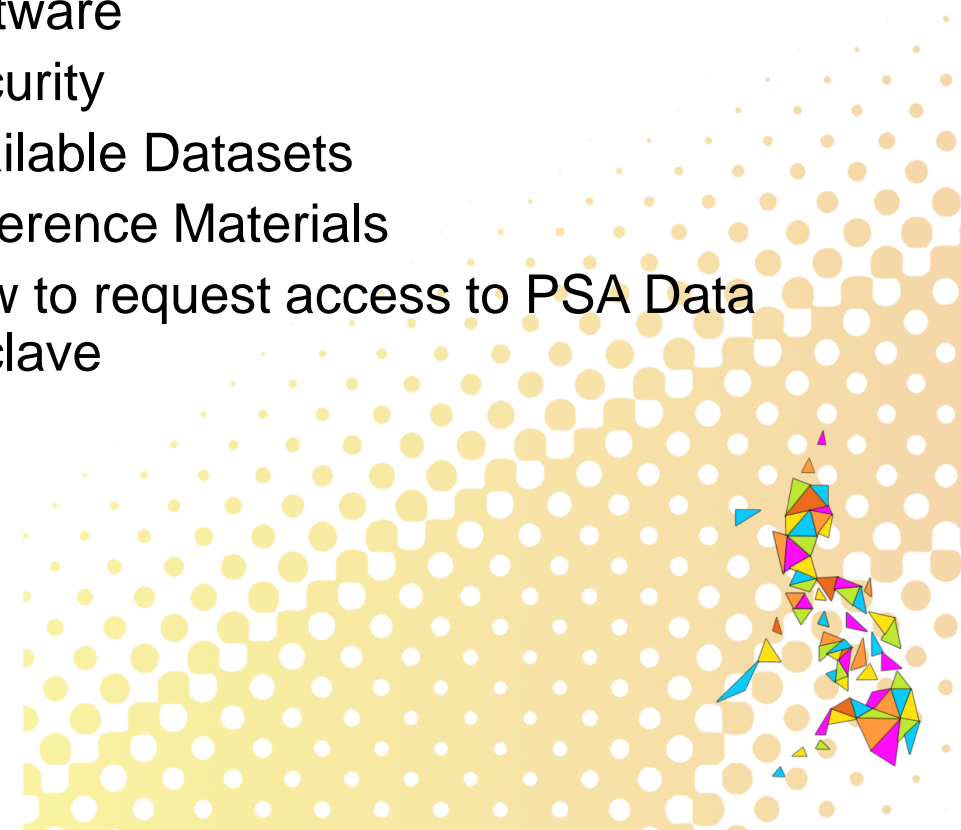
❖ Dissemination Channels for Microdata Files

❖ PSA Data Archive (PSADA)

- Features of PSADA

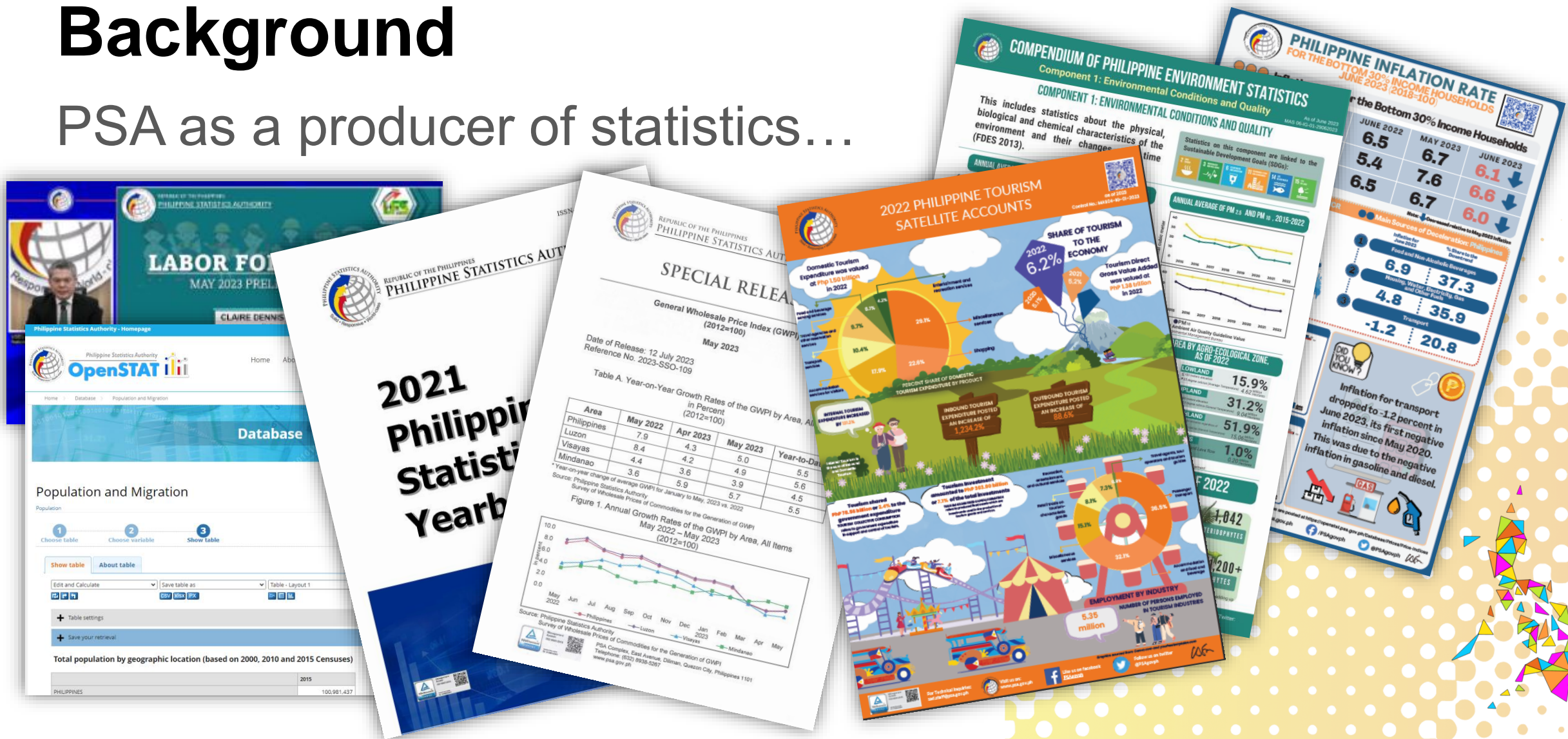
❖ PSA Data Enclave

- Hardware
- Software
- Security
- Available Datasets
- Reference Materials
- How to request access to PSA Data Enclave



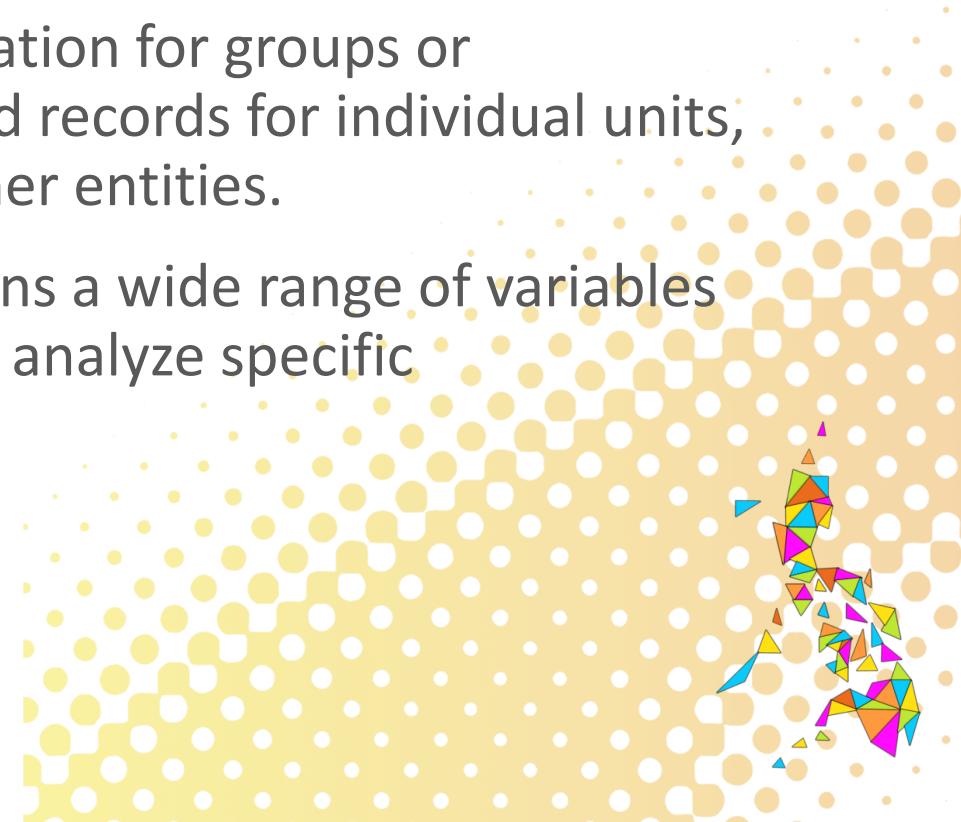
Background

PSA as a producer of statistics...



What is statistical microdata?

- ❑ Statistical microdata refers to individual-level data that is collected, stored, and used for statistical analysis and research.
 - Unlike aggregated data, which summarizes information for groups or categories, statistical microdata consists of detailed records for individual units, such as individuals, households, businesses, or other entities.
 - Each record in statistical microdata typically contains a wide range of variables or attributes, allowing researchers to examine and analyze specific characteristics or behaviors of individual units.



Use of Microdata

❑ Philippine Competition Commission:

- Utilized microdata from PSA to investigate and quantify market power in Philippine agricultural markets.
- Employed a production function approach and structural methods, using firm-level data from the CPBI and ASPBI's Agriculture, Forestry, and Fishing module

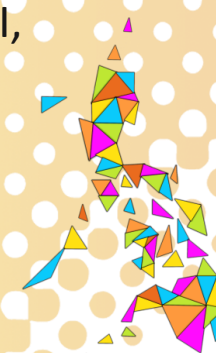
❑ Philippine Institute for Development Studies:

- Enables researchers to conduct in-depth analyses of economic policies and identify intriguing trends and patterns.

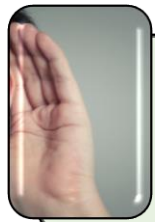
❑ World Bank:

- Conduct research to understand and address the aggregate productivity slowdown in the Philippines by examining productivity trends across specific industries and different types of firms.
- Explore topics such as SME productivity, the digital ecosystem, creative sectors, and the impact of trade data on firm productivity.
- Relies on microdata sources such as ASPBI, CPBI, and SICT.

The availability of such data enabled evidence-based policymaking and will continue to support future research endeavors. This demonstrates the crucial role of microdata in advancing economic research and policymaking in the country.



Challenges in disseminating microdata



Privacy and
Confidentiality



Data Protection



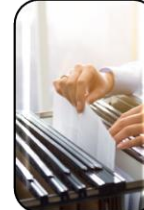
Legal and Ethical
Considerations



Data Linkage and
Identification Risk



Balancing Access and
Security



Data Quality and
Documentation



Limited Resources and
Expertise



Types of Microdata Files



Public Use Files

- Anonymized microdata files
- Made available to anyone who agrees to comply with a set of simple conditions and usually can be accessed or downloaded online



License Files

- Semi-anonymized microdata files
- Exclusively available to authorized users who have undergone an application process and signed a data use agreement



Files Accessible in the Data Enclave

- Sensitive data, difficult to anonymize
- Subject to strict conditions in a data enclave
- Outputs from the enclave undergo a thorough disclosure review before release

Dissemination Channels for Microdata Files

❑ PSA Data Archive Website

<https://psada.psa.gov.ph>



LF



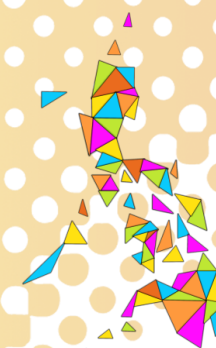
PUF



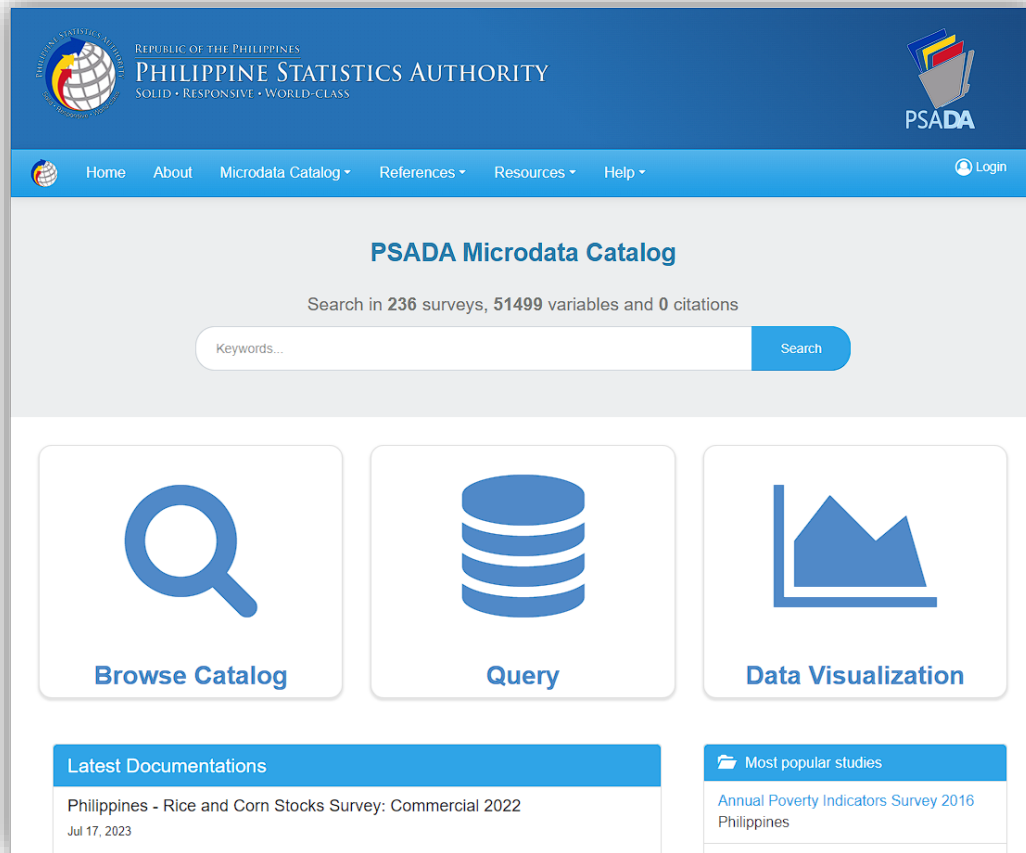
❑ Data Enclave Facility



DEF



PSA Data Archive (PSADA)

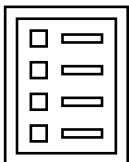


□ The PSA Data Archive (PSADA) is a web-based cataloging system enhanced by the Philippine Statistics Authority to serve as the central repository of all microlevel datasets (or microdata) and information related to the procedures undertaken and materials used in the conduct of PSA statistical activities (or metadata). The system is powered by the [National Data Archive](#), an open-source system compliant with the [Data Documentation Initiative \(DDI\)](#) and [Dublin Core's RDF](#) metadata standards.

- Document, disseminate, and preserve all the datasets and their corresponding metadata; and
- Promote rational use and appropriate interpretation of the statistics generated by the PSA.



Features of PSADA



Browse Metadata Catalog

- The Browse Catalog feature offers an easy and faster browsing experience of available documentations or rich metadata covering study level, data files and variables.
- View the study description (e.g., Coverage, Sampling, Processing); Download related materials (e.g., Questionnaires, Manuals);



Annual Poverty Indicators Survey 2016

Philippines, 2016

Reference ID	PHL-PSA-APIS-2016-v1.0
Producer(s)	Philippine Statistics Authority
Collection(s)	Annual Poverty Indicators Survey Household-based Surveys
Metadata	Documentation in PDF
Related Microdata	Download Other Related Microdata

CREATED ON
Sep 13, 2021

LAST MODIFIED
Sep 15, 2021

PAGE VIEWS
165169

DOWNLOADS
589

STUDY DESCRIPTION RELATED MATERIALS DATA DESCRIPTION GET MICRODATA

IDENTIFICATION

VERSION

SCOPE

COVERAGE

PRODUCERS AND SPONSORS

SAMPLING

DATA COLLECTION

DATA PROCESSING

DATA APPRAISAL

DATA ACCESS

DISCLAIMER AND COPYRIGHTS

CONTACTS

Identification

TITLE
Annual Poverty Indicators Survey 2016

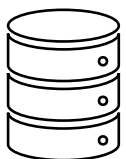
COUNTRIES

Name	Abbreviation
Philippines	PHL

IDNO
PHL-PSA-APIS-2016-v1.0

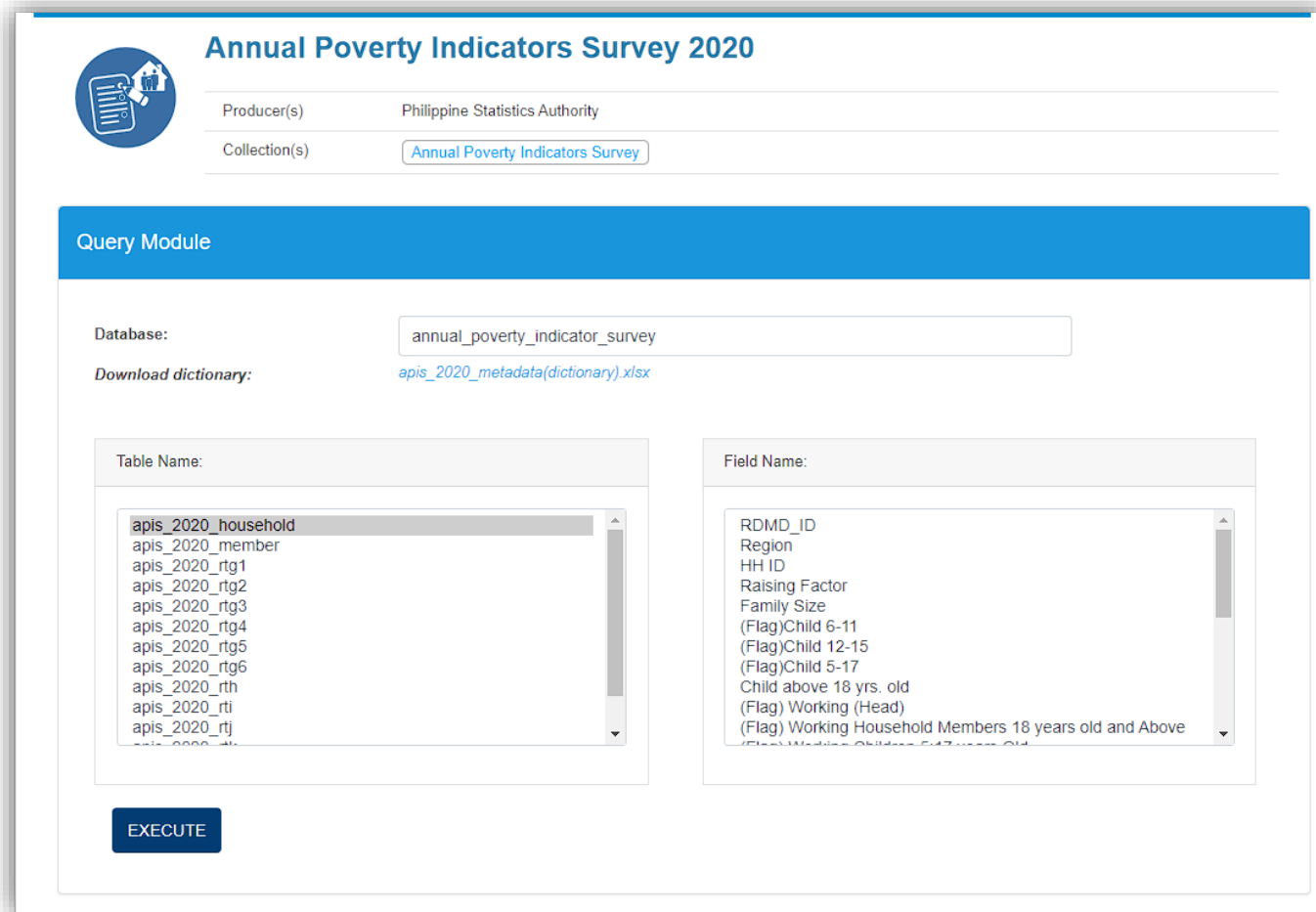
STUDY NOTES
The Annual Poverty Indicators Survey (APIS) gathers data that can be used to generate income and non-income based poverty indicators for monitoring the poverty situation in the country and as basis for the formulation of policies and programs to improve the living conditions of the population. The income data are comprehensive and will be used as key inputs in the generation of the first semester national-level

Features of PSADA



Query

- The Query feature allows clients to download a subset of the microdata instead of the whole microdata.



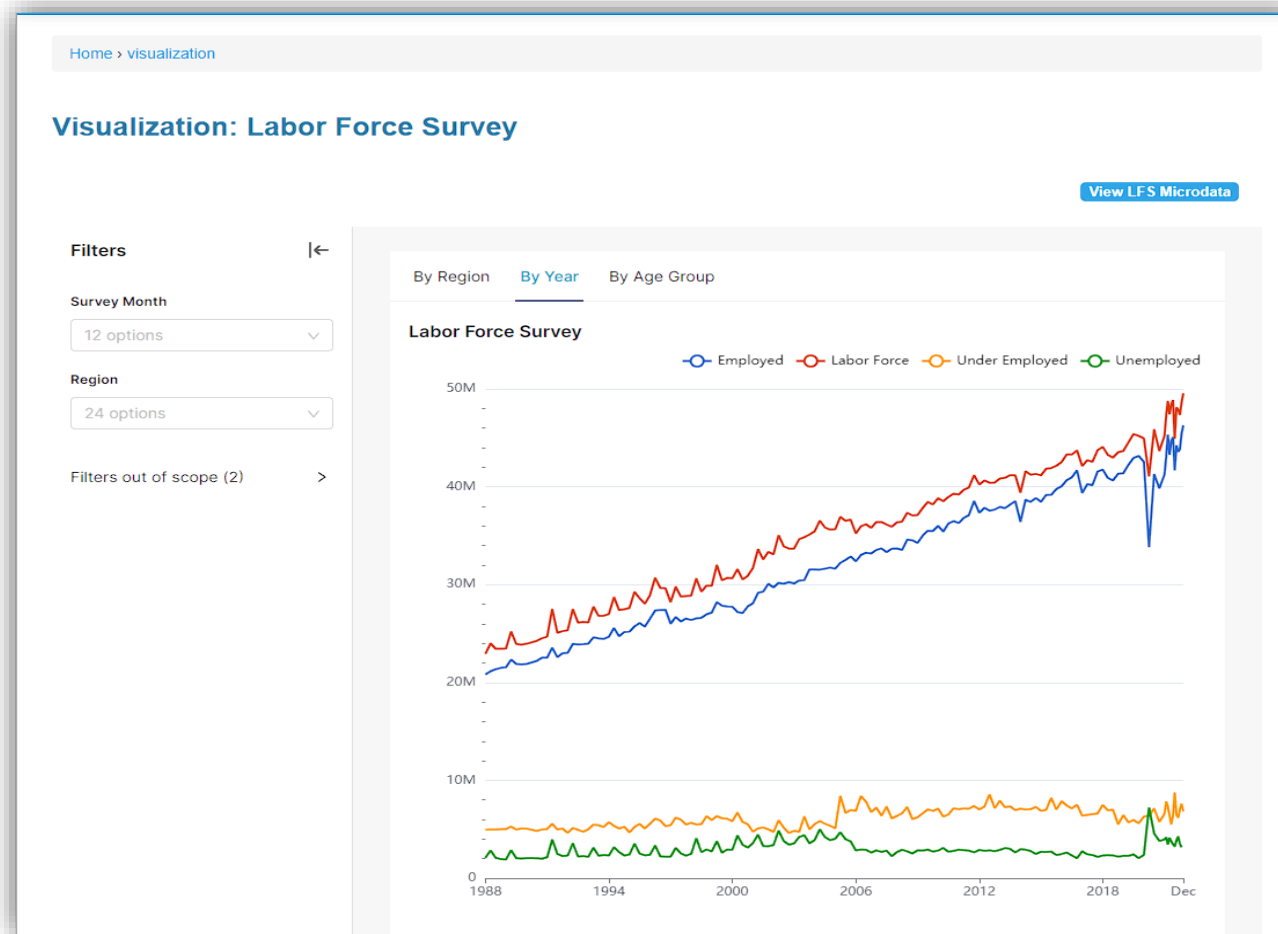
The screenshot displays the 'Annual Poverty Indicators Survey 2020' interface. At the top, it identifies the 'Producer(s)' as the 'Philippine Statistics Authority' and the 'Collection(s)' as the 'Annual Poverty Indicators Survey'. Below this is the 'Query Module' section. It includes a 'Database:' field set to 'annual_poverty_indicator_survey' and a 'Download dictionary:' link for 'apis_2020_metadata(dictionary).xlsx'. The 'Table Name:' dropdown menu is open, showing a list of tables including 'apis_2020_household' (which is selected), 'apis_2020_member', and various regional tables (apis_2020_rtg1 through apis_2020_rtg6), as well as 'apis_2020_rth', 'apis_2020_rti', and 'apis_2020_rtl'. The 'Field Name:' dropdown menu is also open, showing a list of fields including 'RDMD_ID', 'Region', 'HH ID', 'Raising Factor', 'Family Size', and several age-specific and working status indicators like '(Flag)Child 6-11', '(Flag)Child 12-15', '(Flag)Child 5-17', 'Child above 18 yrs. old', '(Flag) Working (Head)', and '(Flag) Working Household Members 18 years old and Above'. An 'EXECUTE' button is located at the bottom left of the query module.

Features of PSADA



Data Visualization

- This feature connects the application to the PSA Data Marts and allows users to visualize time series of microdata, and generate dashboards and reports, from the simplest to highly detailed ones.

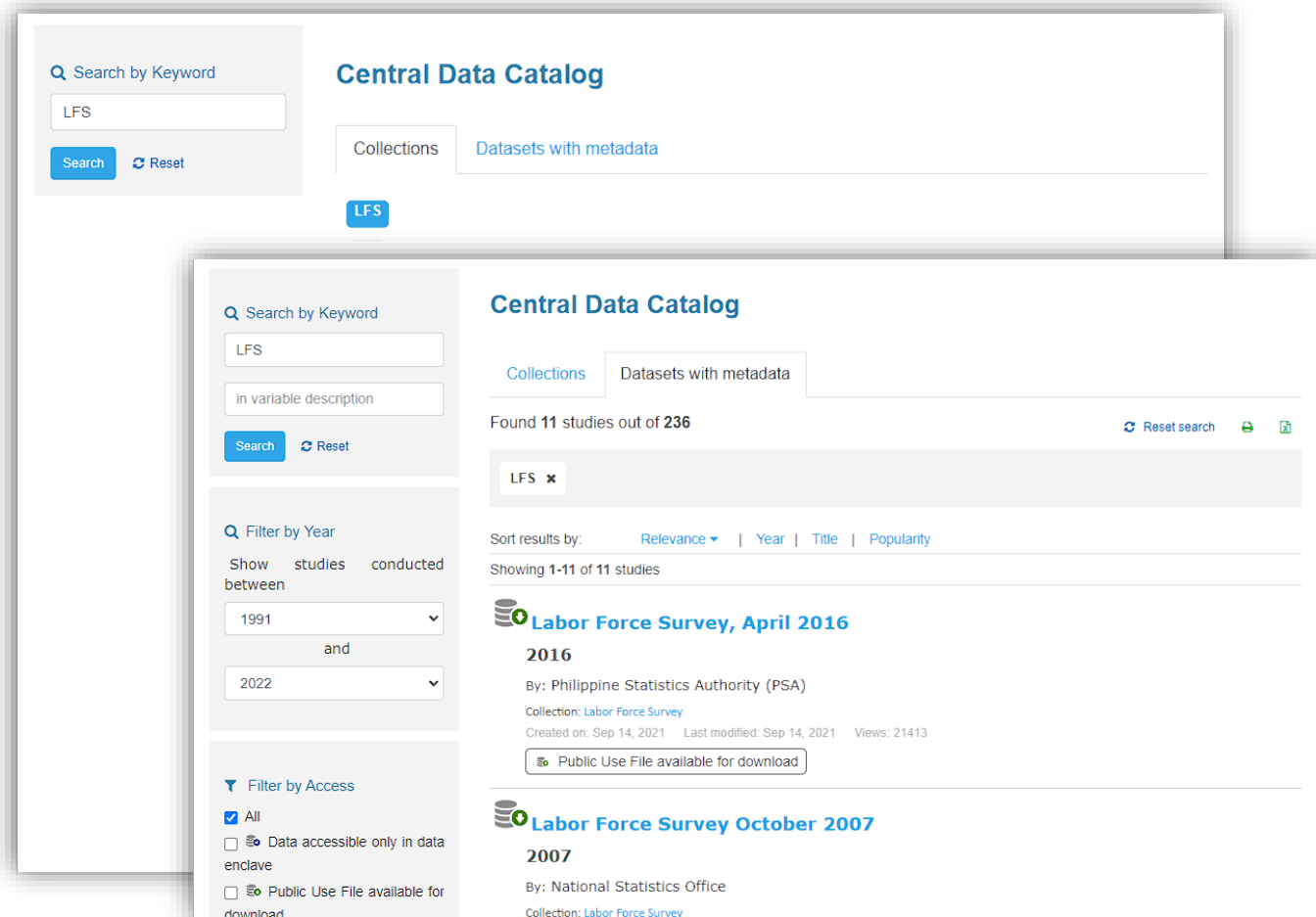


Features of PSADA

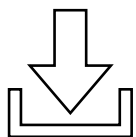


Keyword Search

- This feature makes it easier for users to search for specific surveys or censuses by using keywords



Features of PSADA



Downloadable Microdata

- This feature allows the users to download the microdata directly from the link.

[Central Catalog](#)

Search by Keyword

in study description

in variable description

Search

Reset

LFS

Labor Force Survey

About































Datasets with metadata

The Labor Force Survey is a nationwide survey of households conducted regularly to gather data on the demographic and socio-economic characteristics of the population. It is primarily geared towards the estimation of the levels of employment in the country.

The Labor Force Survey aims to provide a quantitative framework for the preparation of plans and formulation of policies affecting the labor market.

View LFS Database

View LFS Data Visualization

Datasets	Microdata	Documentation	Database
Labor Force Survey August 2022			
Labor Force Survey July 2022			
Labor Force Survey June 2022			
Labor Force Survey May 2022			
Labor Force Survey April 2022			
Labor Force Survey March 2022			
Labor Force Survey February 2022			
Labor Force Survey January 2022			
Labor Force Survey December 2021			
Labor Force Survey November 2021			

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Features of PSADA



Help Desk

- This feature provides help instructions to users when accessing the site.

Help Center

- Get Started
- How can we help you?
 - What is PSA Data Archive?
 - How do I create an account on the PSADA?
 - I forgot my password, how can I reset it?
 - How do I report a problem with the PSADA?
- Features
- Microdata Classification
- Access/Download Files
- Data Enclave
- Data Privacy

How can we help you?

If you need assistance with the PSA Data Archive, please help yourself by reading our extensive FAQs and helpful guidelines using the side menu.

If you did not find what you are looking for, you may contact the PSA Information Center in the following ways:

- Contact the PSA Information Section at info@psa.gov.ph, and provide details on your data request.
- Fill up the online Data Request Form (<https://psa.gov.ph/content/data-request-form>).
- Visit the PSA Library at 1/F, CVEA Bldg., PSA Complex, East Avenue, Diliman, Quezon City.
- Send a letter requesting for dataset addressed to the PSA National Statistician.

CLAIRE DENNIS S. MAPA, Ph.D.
National Statistician and Civil Registrar General
8/F CRS Building, PSA Complex
East Avenue, Diliman, Quezon City, 1101

PSA will respond to your data request within two (2) working days to either clarify or address your data request. Please be advised however that the length of time needed to completely address your request may vary depending on the availability of data.

PSA Data Enclave



- ❑ A Data Enclave is a highly secure and specialized facility through which confidential data such as identifiable information and firm-level data from censuses and surveys can be stored and disseminated.
- ❑ Facilitates research, analysis, and decision-making while maintaining data privacy and security.



PSA Data Enclave Hardware

❑ Enclave Terminals, Workstations, and VPN



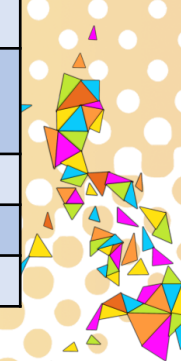
❖ DATA ENCLAVE WORKSTATION = 19

Component	Specifications
Processor	Intel Core i7
Installed Memory (RAM)	32 GB
System type	64bit operating system, x64-base processor
Operating System	Windows 10 Profession Edition or later
Solid State Drive (OS)	1 TB
Hard Disk Drive (files)	2 TB
Monitor	24 inches display

❖ Setup 18 VPN appliance in the Regional Offices

❖ DATA ENCLAVE TERMINAL = 3

Component	Specifications
Processor	Intel Core i9-9900K (3.6GHZ up to 5.0GHZ, 16MB CACHE LGA1151)
Installed Memory (RAM)	128 GB
System type	64bit operating system, x64-base processor
Operating System	Windows 10 Profession Edition or later
Solid State Drive (OS)	1 TB
Hard Disk Drive (files)	2 TB
Monitor	24 inches display



PSA Data Enclave Software

☐ Installed Software



Statistical and Database software



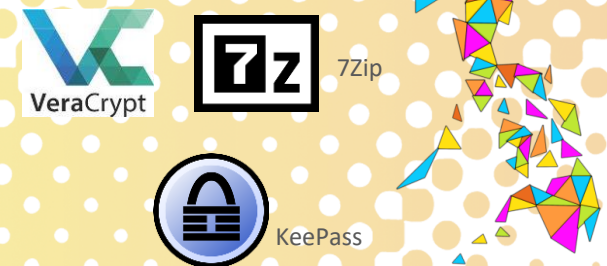
Geospatial Software



MS Office and PDF Reader

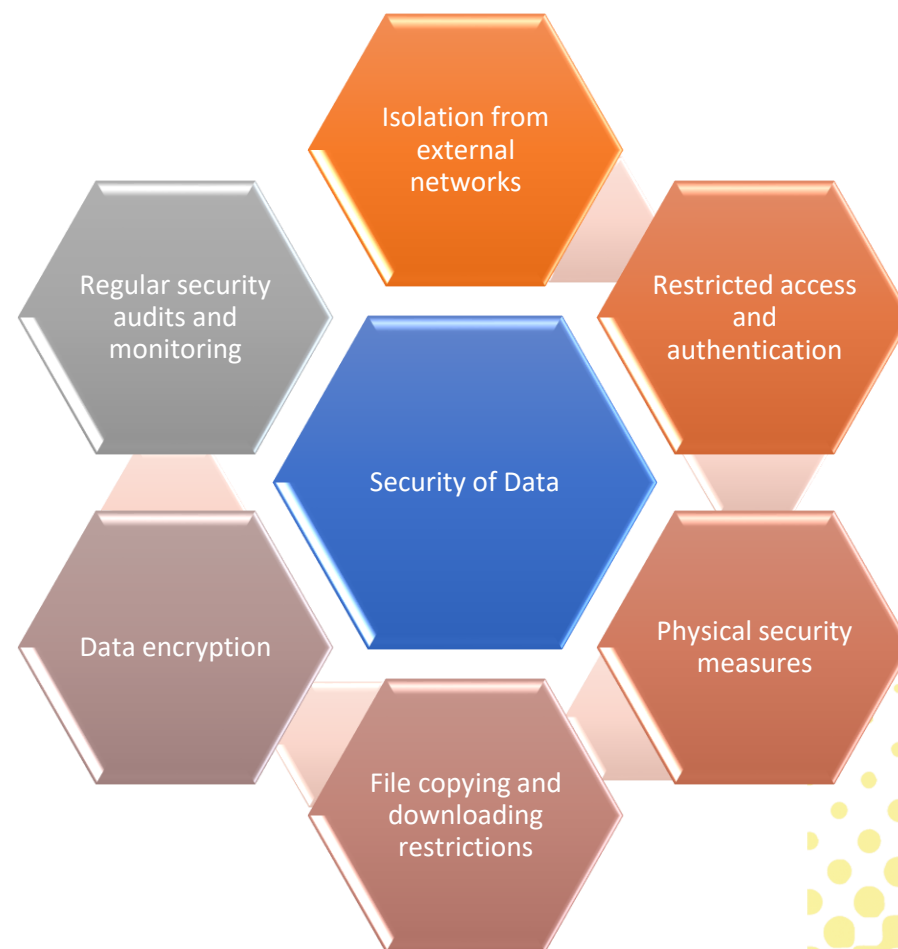


Security and Encryption



PSA Data Enclave Security

☐ Security of Data



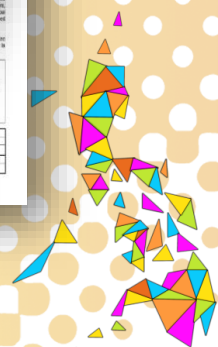
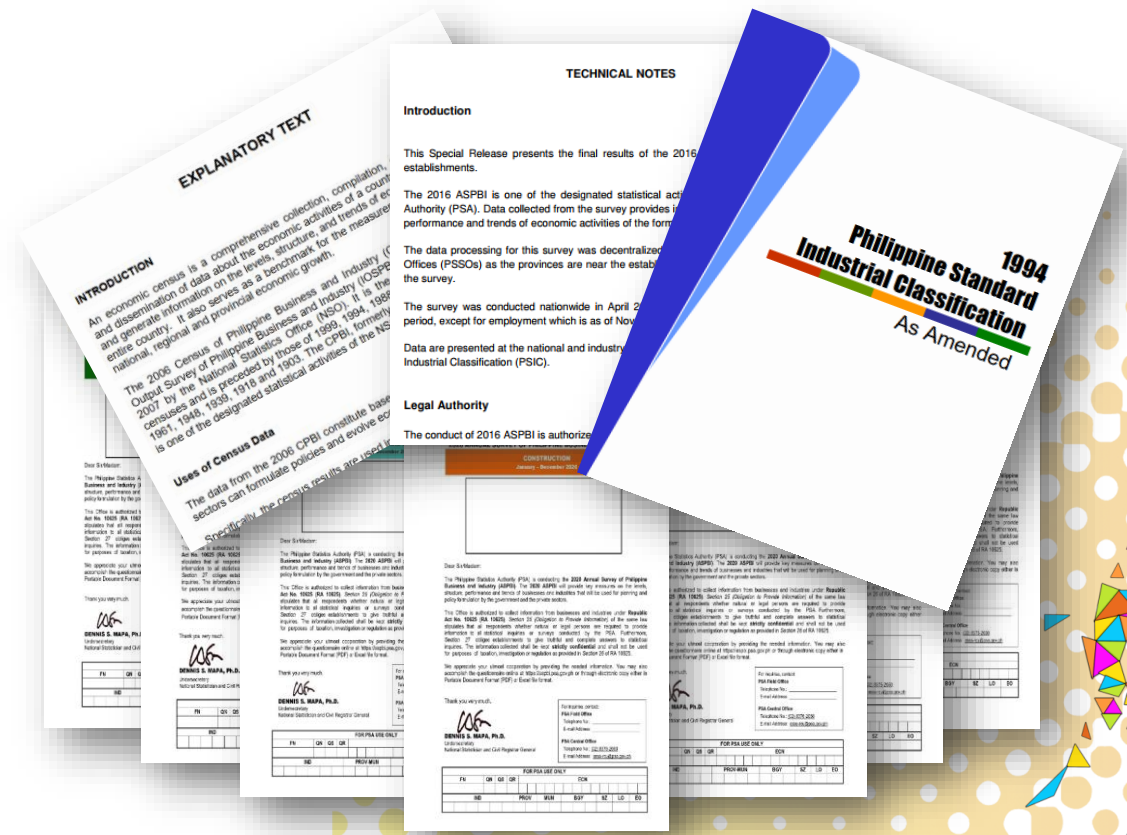
Available Datasets in the Data Enclave

- ☐ Annual Survey of Establishments (ASE)
- ☐ Annual Survey of Philippine Business and Industry (ASPBI)
- ☐ Census of Philippine Business and Industry (CPBI)
- ☐ Survey on Information and Communication Technology (SICT)
- ☐ Occupational Wages Survey (OWS)
- ☐ Integrated Survey on Labor and Employment (ISLE)



Reference Materials in the Data Enclave

- ☐ Explanatory Text
- ☐ Technical Notes
- ☐ Philippine Statistics Geographic Code (PSGC)
- ☐ Philippine Standard Industrial Classification (PSIC)
- ☐ Questionnaires/Form



How to Request Access to PSA Data Enclave?

❑ To access a Data Enclave file in the Data Enclave, one must accomplish the following:

1. Download and accomplish the Data Enclave Access Agreement form (DEAA).
2. Send an official letter and attach the signed DEAA either through email (attach the scanned copy of the letter and DEAA) or snail mail.
 - If one would like to access the Data enclave in the PSA Central Office, then address the letter to:

CLAIRE DENNIS S. MAPA, Ph.D.
National Statistician and Civil Registrar General
8/F CRS Building, PSA Complex
East Avenue, Diliman, Quezon City, 1101

Email: info@psa.gov.ph and ons.staff@psa.gov.ph

- If one would like to access the Data enclave in one of the Regional Statistical Service Offices (RSSO), address the letter to the Regional Director of the RSSO. Click the link to view the directory of the RSSOs.
3. The Data Enclave Manager (DEM) will respond to you within a day or two.

18 PSA Data Enclave Centers





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Thank you!



<http://www.psa.gov.ph>



<http://openstat.psa.gov.ph>



<https://twitter.com/PSAgovph>



<https://www.facebook.com/PhilippineStatisticsAuthority>

