

MODERNISING POPULATION AND HOUSING STATISTICS: *LESSONS FROM INDONESIA'S TRANSITION TOWARD INTEROPERABLE DATA SYSTEMS*

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____ WITH SINCERE APPRECIATION TO OIC-STATCOM AND THE DISTINGUISHED DELEGATIONS ____
FOR VALUABLE PARTICIPATION AND COLLABORATION

INDONESIA'S POPULATION CENSUS EXPERIENCE AND FUTURE PLANS



	 POPULATION CENSUS 2010	 POPULATION CENSUS 2020	POPULATION CENSUS 2030
Data Source	Traditional census relying on full field canvassing	Combined Method (CRVS as prelist + field enumeration)	Register-Based Census Administrative data as the main source
Data Collection	PAPI Full canvassing	Multimode PAPI, CAPI, and CAWI	Targeted Verification Register-based + focused field checks
Enumeration Unit	Census Block Standardized spatial units (approx. 80 households).	Neighborhood Unit Sub-local administrative units	Geospatial & Dwelling Entity Shifting to exact address coordinates (linking person to dwelling)
Individual ID	— Not yet available	National Identification Number	National Identification Number & SPR_ID Establishes a single statistical entity per person and records linkage quality
Housing ID	— Not yet available	— Not yet available	Dwelling ID / Location ID Supported by a comprehensive Address/Location Register integrated with geospatial data

INDONESIAN SOCIAL REGISTRY (DTSEN)

is a foundation for achieving PC2030

Strategic Insights: The Direction of the 2030 Census

- ☒ **More Integrated**
Transitions into a continuous data ecosystem, driven by the Statistical Population Register (SPR).
- ☒ **More Efficient**
Focused field operations directed strictly at verifying anomalies and filling data gaps will lead to lower cost.
- ☒ **More Dynamic**
Continuous data harmonization will provide policymakers with regular population snapshots.
- ☒ **More Accurate**
Enforces a "one person, one statistical entity" while linking individuals directly to exact Dwelling IDs for high-resolution spatial precision.

INDONESIAN SOCIAL REGISTRY (DTSEN)

DTSEN is the main data source for developing the SPR, following statistical standards and quality assurance

Microdata Foundation for Strengthening Social Protection

DTKS

by Ministry of Social Affairs

Integrated Social Welfare Data



P3KE



by Coordinating Ministry for Human Dev. and Cultural Affairs

Data for the Acceleration of Extreme Poverty Elimination

REGSOSEK

by Ministry of National Development Planning/Bappenas

Social and Economic Registration



Other Administrative Data



PLN

Electricity customer data



PERTAMINA

Subsidy and energy data



BPJS Kesehatan

Health insurance participant data



BPJS Ketenagakerjaan

Employment insurance participant data

Validation and data matching with population data



Population Administration

by Directorate General of Population and Civil Registration

National Identification Number



Indonesian Social Registry (DTSEN)

A unified data source for more equitable, inclusive, and prosperous Indonesia

Modernisation led by BPS is not carried out solely by BPS. It is a **collaborative effort** involving multiple data sources across government institutions.

Current Uses of DTSEN

- ✓ **Statistical Use as Sampling Frame**
- ✓ **by Name by Address (BNBA) Data**

- Beneficiaries List
- Program Planning and Targeting
- Monitoring & Evaluation
- Inclusive & Equitable Development

DTSEN Variables



Individual Identity



Health and Disability



Education



Housing Conditions



Employment



Asset Ownership



Business Ownership

THE NEXT STEP: STATISTICAL POPULATION REGISTER (SPR)



*Data must undergo rigorous, standardized statistical processing to be transformed into reliable **official statistics**.*

The four anchors of SPR



People
Defining precise population parameters.



Time
Establishing rigorous reference period



Place
Pinpointing precise spatial coordinates.



Events
Capturing vital Demographic events.

Feedback mechanism for DTSEN Update

Input



DTSEN

Updated using:

- Administrative data
- CRVS
- Census / survey data
- Geospatial / building data

Process



Person register



Building / dwelling register



Person-to-place link



Rule & quality engine

SPR



Population and housing snapshot

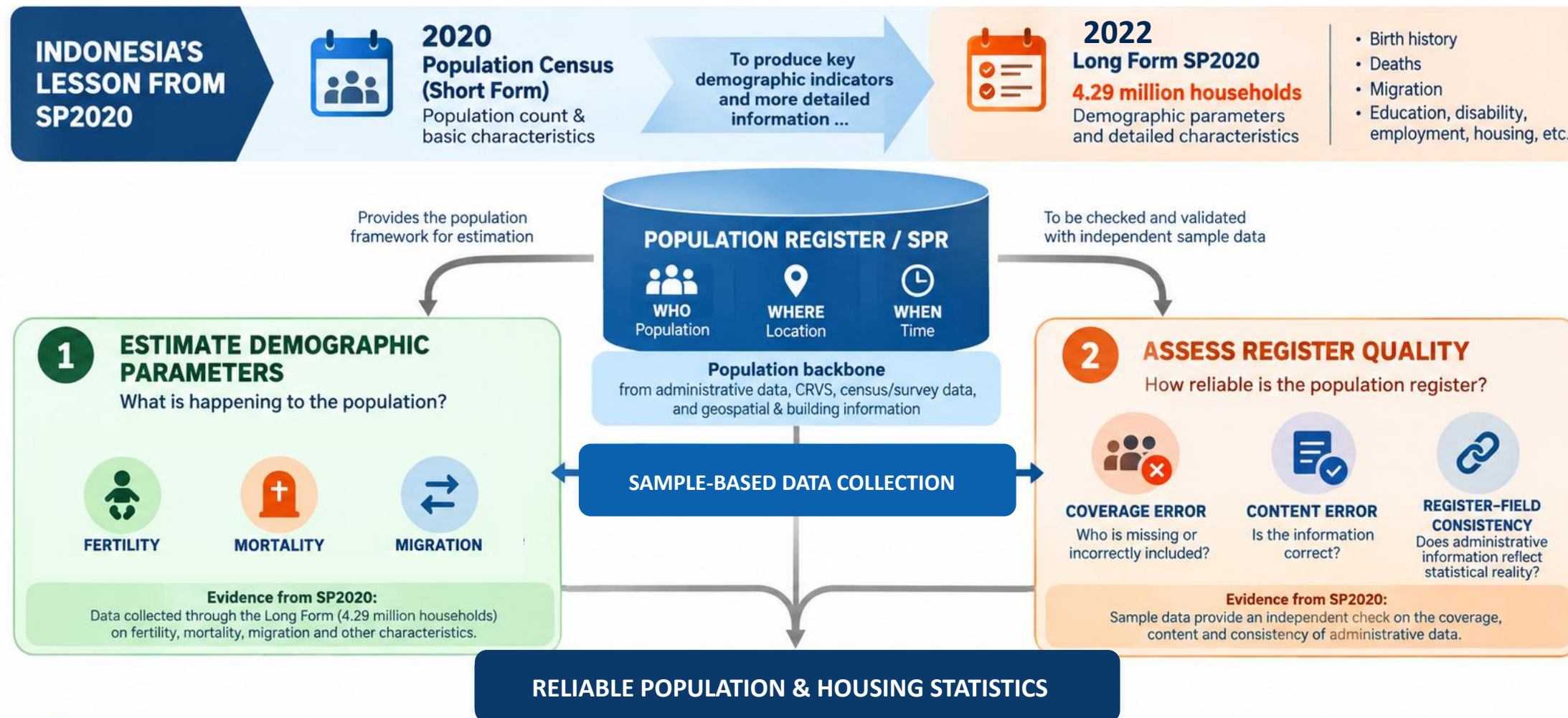


Population Census 2030 frame



REGISTERED-BASED DOES NOT MEAN SAMPLE-FREE

sample surveys remain essential

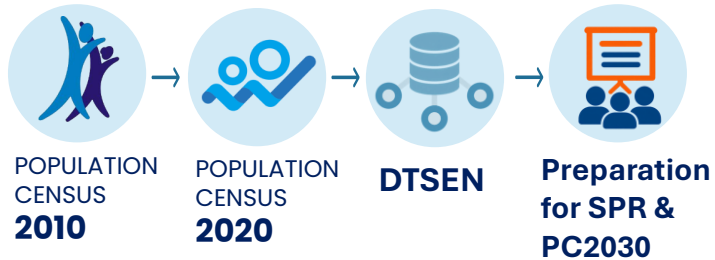


Registers provide the population backbone. Samples provide demographic parameters and independent quality assurance.

POTENTIAL AREAS FOR COLLABORATION



Indonesia's Case



Indonesia's transition toward interoperable population statistics

BPS- Statistics Indonesia Offer



Experience & Methodology Sharing

- Census modernisation
- Data integration
- Quality assurance



Expertise & Capacity Building

ROSE • StatCaB

Alignment with OIC-Statcom Strategic Area



AREA 1

Capacity development



AREA 3

Modernisation & Innovation



AREA 5

Quality Improvement

Indonesia stands ready to contribute, collaborate, and grow together with OIC-StatCom members.



The future of population and housing statistics is **not about replacing the census.**

It is about making census, surveys, administrative, digital and geospatial data work together.

