

# Technical Workshop on Time, People, Places and Relationships: A New Lens to Organize Social and Demographic Outcomes

## **INE Uruguay's practice**

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# Context of Uruguay

- There is not a Central (Admin.) Population Register... however we could build a SPR.
- Availability of good quality registers (vital, population, others).
- Integrated Information System on Social Area (Min of Social Development): +60 administrative registers from 15 institutions (social security, health, education, etc.). Great starting point!
- Personal ID number of people with universal coverage. National Identity Card.
- Institutional capacity.
- Trust in the public institutions (in particularly the National Institute of Statistics).
- Low informality (good coverage of administrative registers).
- Strong Social Security System (universal coverage).
- Interoperability (Government Interoperability Platform).



# Main milestones

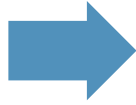
## SIREE (DW) Implementation

- 2020-2022
- Methodological & conceptual framework
- DW implementation



## Integration of Surveys into the SIREE

- 2023-2024
- Multipurpose household survey
- Other household surveys



## Pilot register-based census

- 2023
- Alongside the traditional census
- Peer-to-peer assessment (Stat Norway & UNSD)



## Annual population counts

- 2023
- First population count based on administrative registers.



## Combined census

- 2023-2024
- “Add people” from Statistical Population Register to improve quality & coverage of 2023 Census enumeration



## Improved methodology of SoL

- 2024
- Model to establish an index of residence based on activities or “sign of life”



## Annual census updates

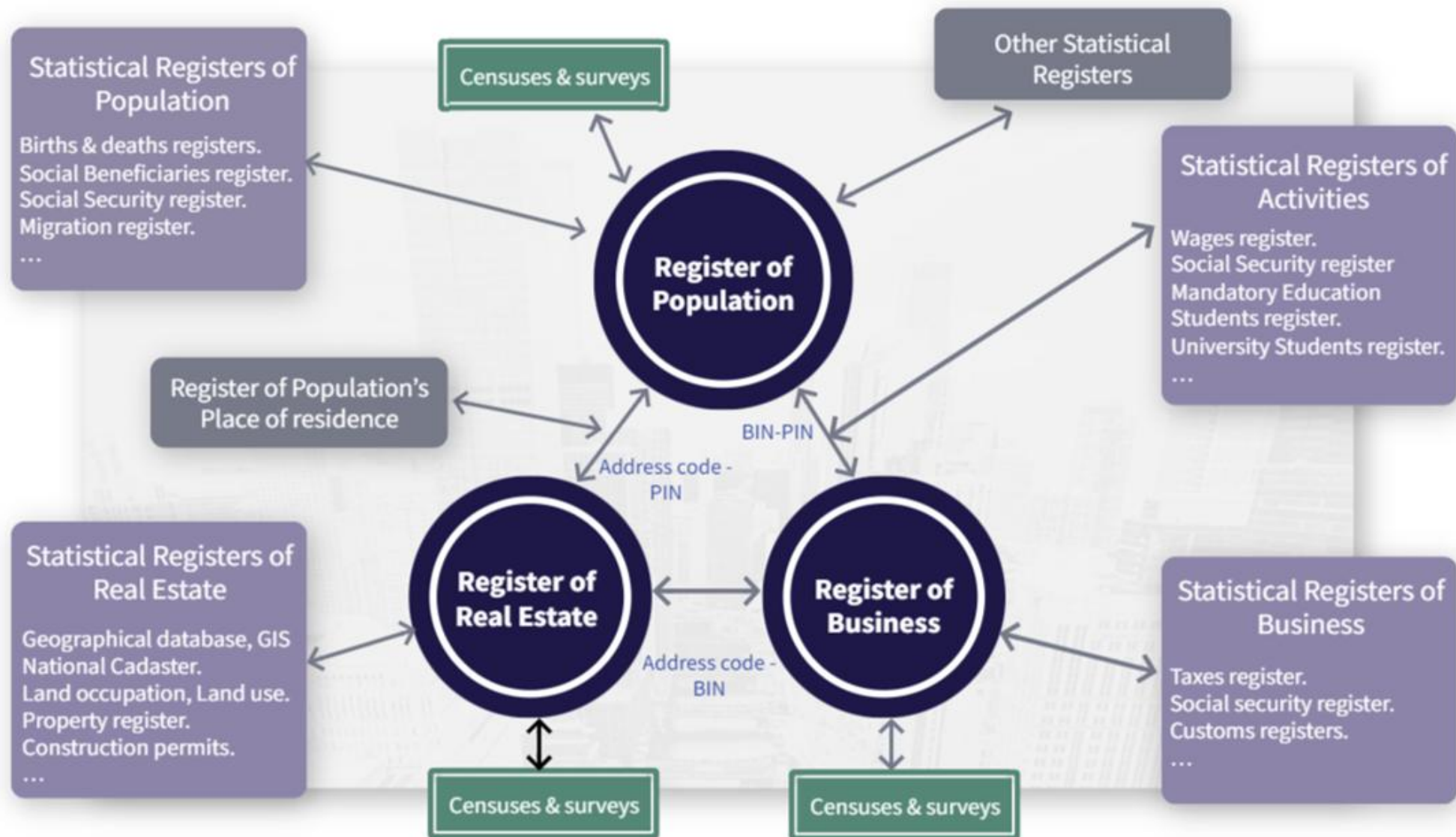
- 2024
- 2023 census as baseline for the Population Register and other specialized statistical registers



## 2023 Census is the backbone of SIREE

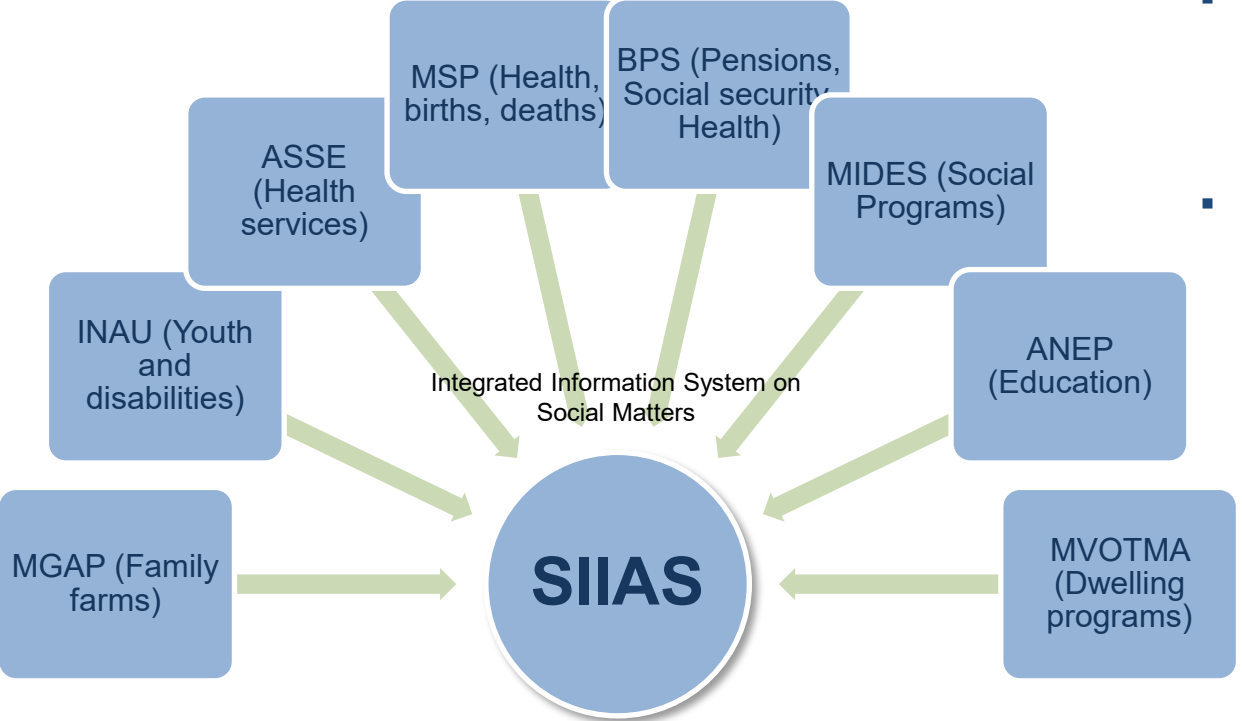
- 2024
- 2023 Census is the backbone of the System of Integrated Statistical Registers and Surveys (SIREE)
- Record Linkage with PIN

# System of Integrated Statistical Registers and Surveys (SIREE)

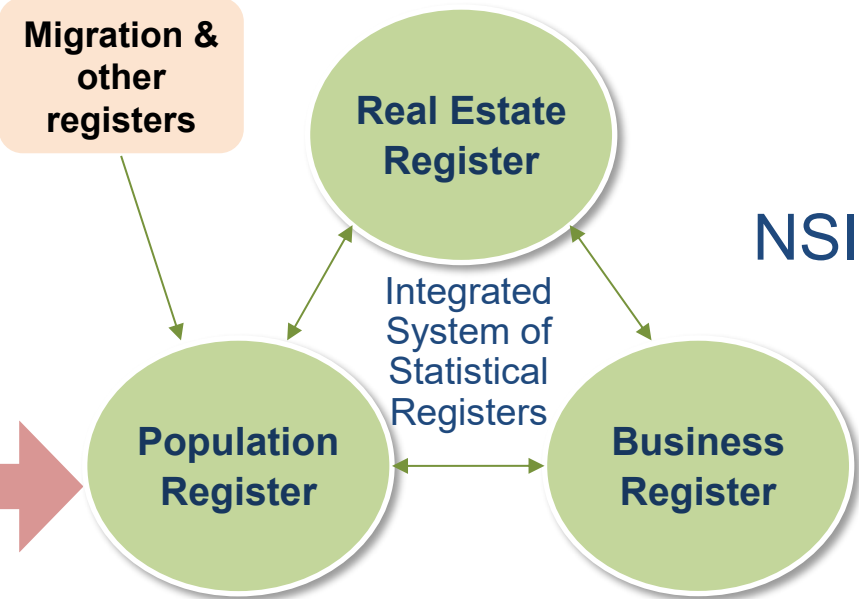
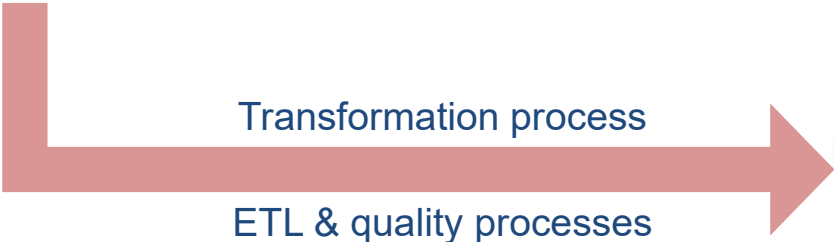


# Population Register

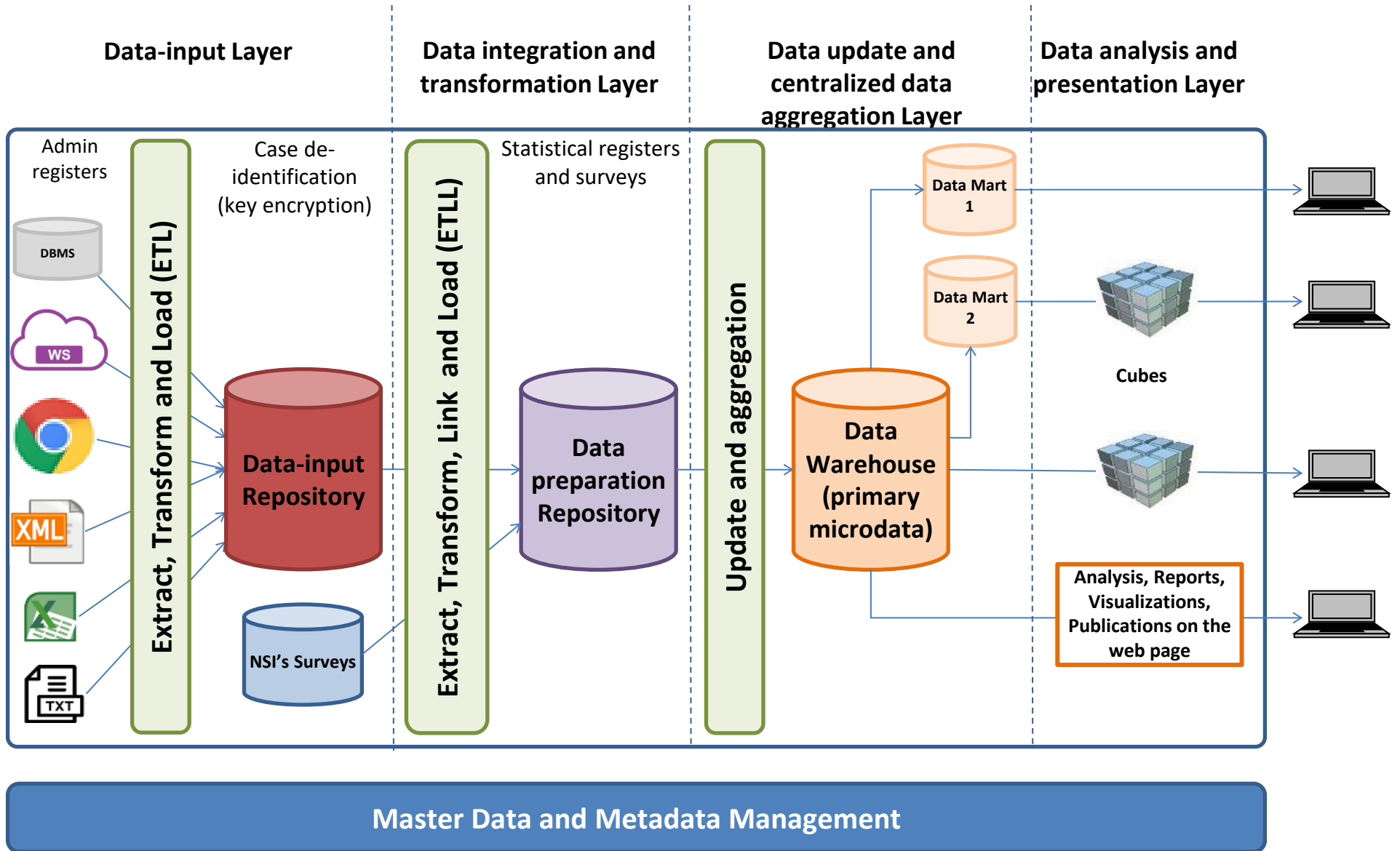
- NSI is member of the SIAS initiative (Ministry of Social Development). SIAS = Integrated Information System on Social Matters.
- 62 administrative registers from 15 institutions (Social Security Authority, Min. Social Development, Min. Dwellings, Min. Agriculture, Min. Health, Public and Private Health Services, Public & Private Education Services, etc.).
- Every 6 months NSI receives data from SIAS, it has 4.5 millions of people (Uruguayan population = 3.5M) including foreign, emigrant and deceased persons.

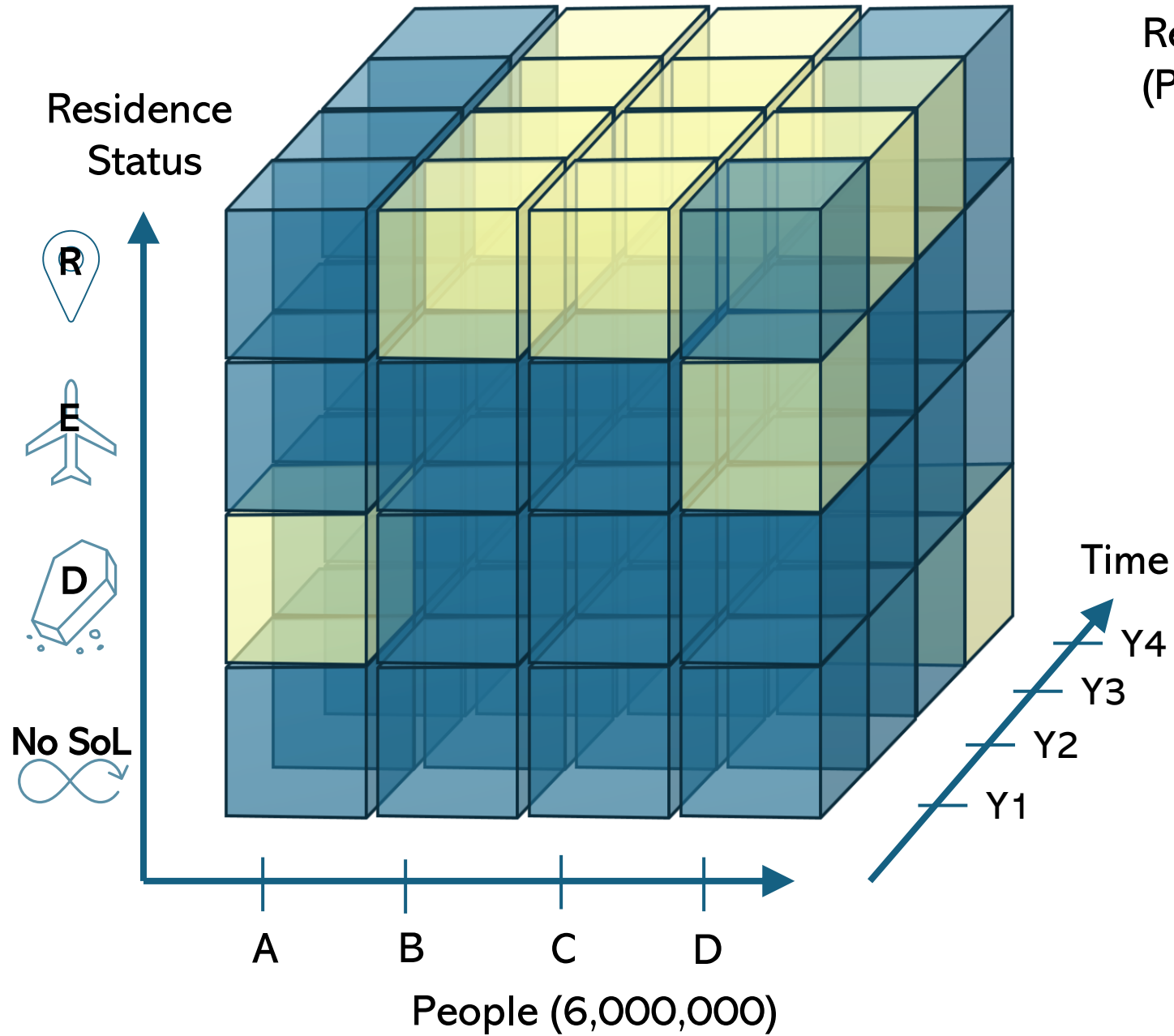


Ministry of Social Development



# Geo-Statistical Data Warehouse





Resident People at year 1  
(Pop. Register 3,500,000)

# Creation of the Master table of people: HUB-of-People

Civil Identification Authority

DNIC  
+  
AR2  
+  
AR3  
+  
AR4

- Cleaning
- Deduplication
- Selection of records according to NAs

Master table of PINs/IDs



Creation of CLUSTERS

Deterministic record linkage hub\_of\_people  
Full name + DoB  
PIN

False Negatives are corrected

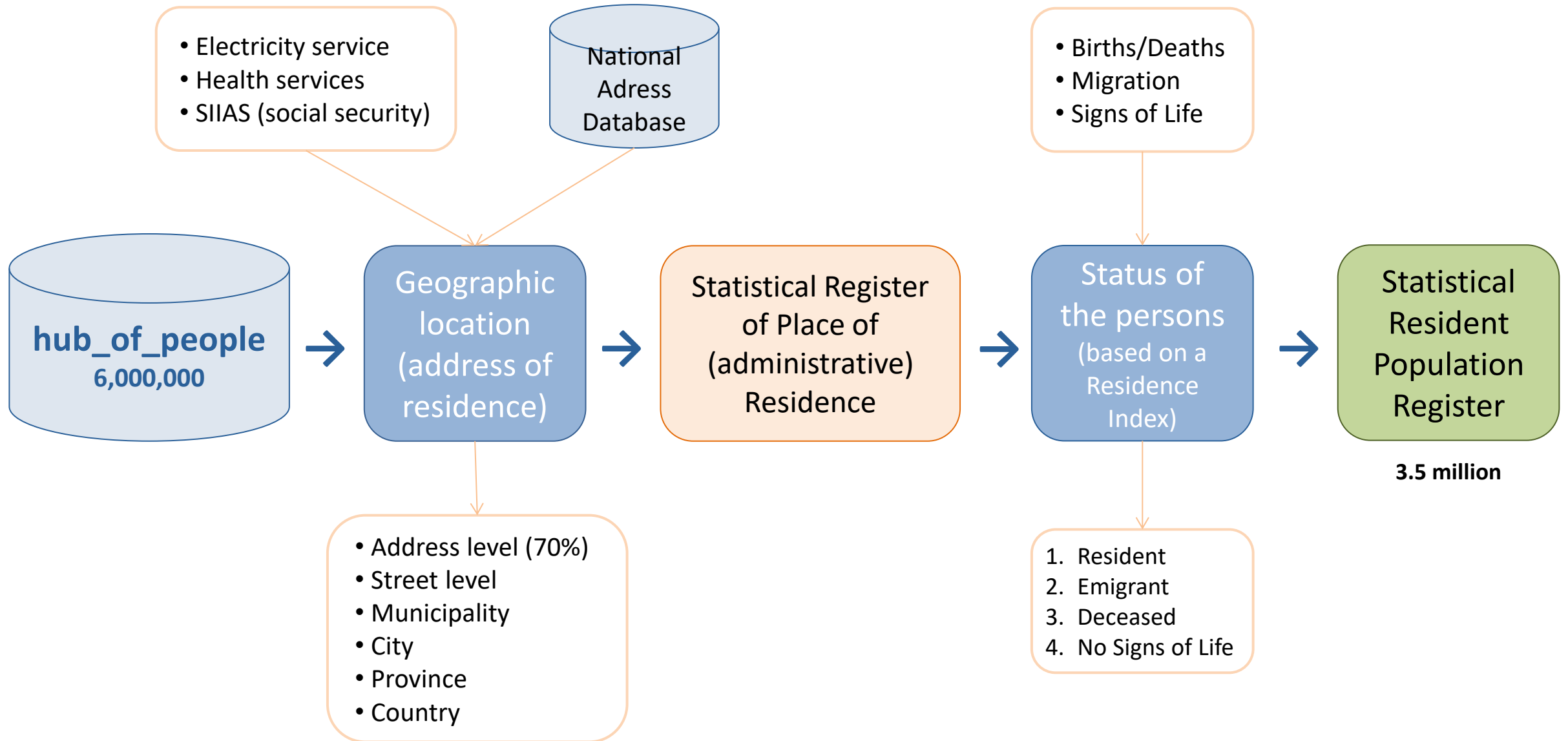
False Positives are discarded



hub\_of\_people  
6,000,000

assigning the Statistical\_ID\_of\_Person to each person, even with different PINs (National ID #, Passport, Foreign ID #, etc.)

# Creation of the Statistical Resident Population Register (SRPR)



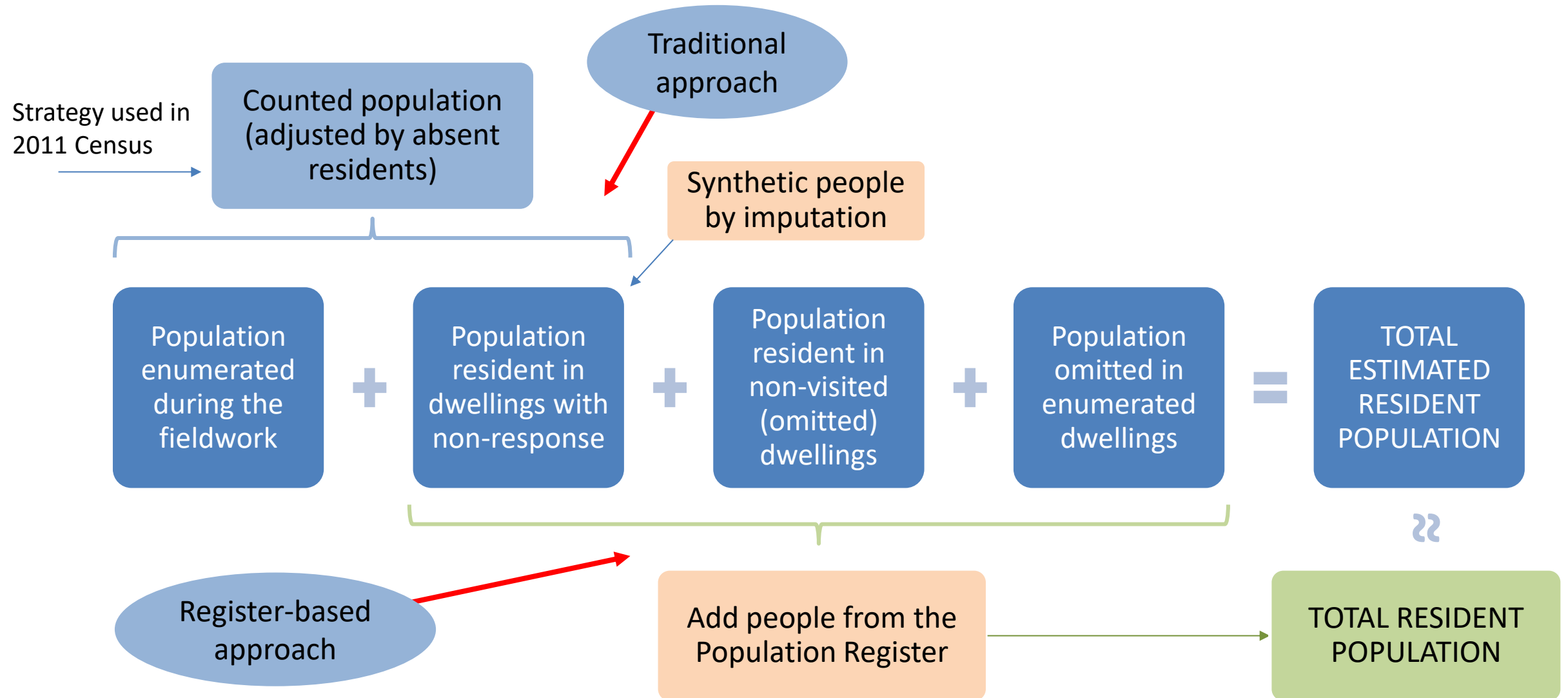
# Update and Review of the SRPR

Update of the *SRPR* with Signs of Life (SoL). Census date:  
31/5/2023

- SIIAS system (+60 admin registers). System of Integrated Information on Social Area.
- Health: affiliates, Covid Vaccinated and Covid+
- Education: kinder, primary, high school, University.
- Active workers, retired and pensioners (Social Security).
- Active services of electricity (electricity Co).
- Migrations, I/O border controls (more than 180 days in UY, in the last 12 months).



# Components of the total estimated resident population in a De Jure Census



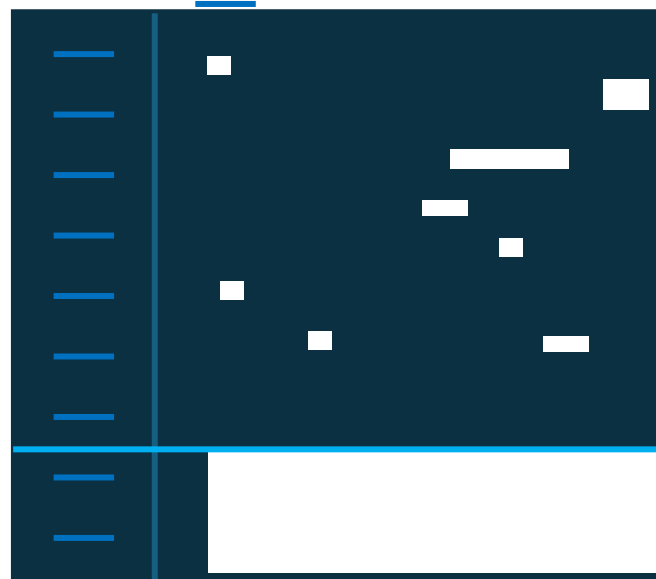
# 2023 Combined Census

## Census questionnaires

People 

Census  
questionnaire

Admin. registers of  
colective dwellings and  
other cases

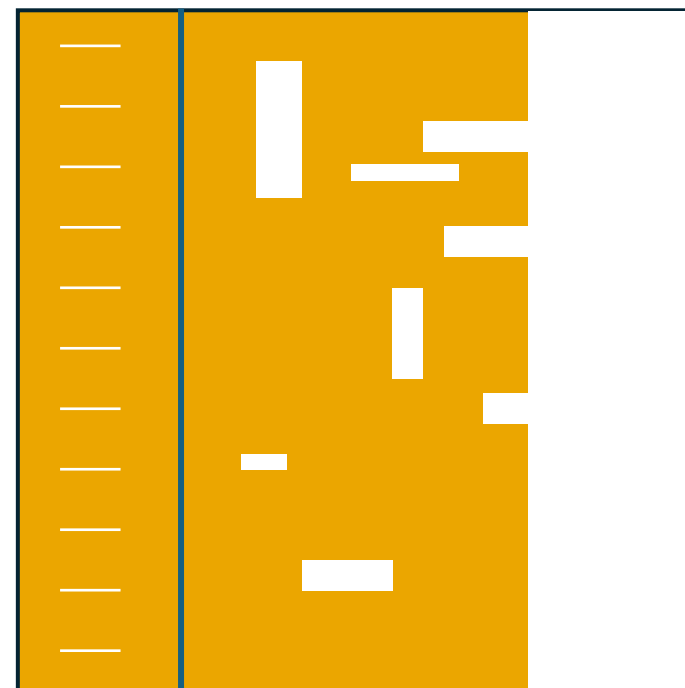


Age, Sex, Place  
of residence    Other variables

Characteristics

## Administrative registers

People 



Age, Sex,  
Place of  
residence

Other variables

Characteristics

# Combining census questionnaires and administrative registers

Census questionnaires

Population register

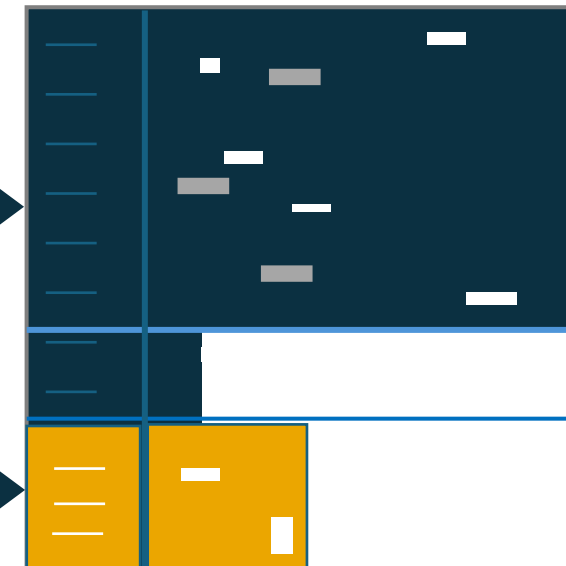
Administrative registers that are added to census microdata to count people not enumerated by the traditional census fieldwork.

People



Census questionnaire

Administrative registers (add people)



Age, Sex, Place of residence

Other variables

Characteristics

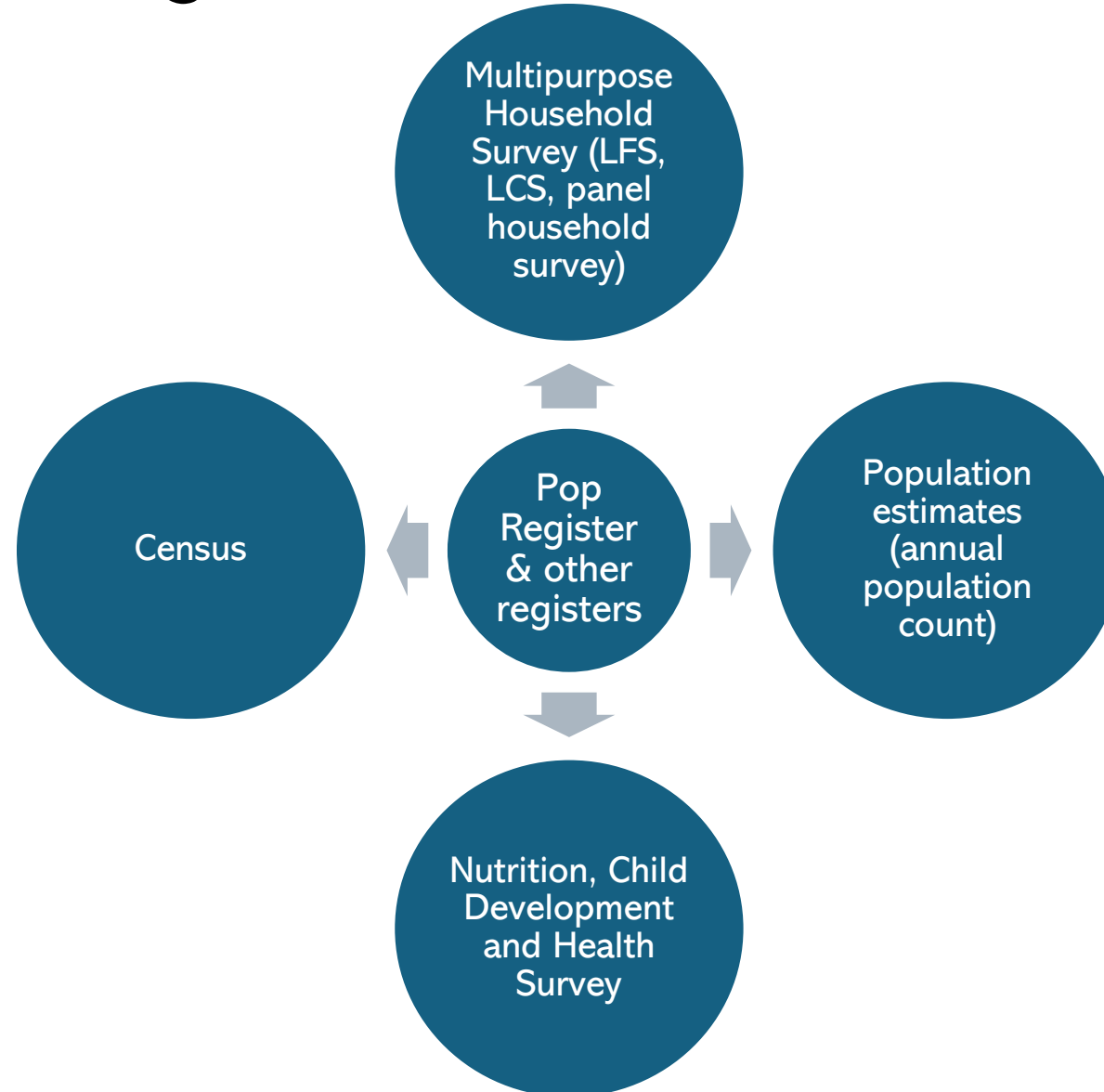
Administrative registers are the main source of variables

# Adding people from the SPR to the Census

- Children under 14 years old who are not enumerated are added to the census household where the mother was enumerated. The Birth Certificate is used to obtain the PINs of the child and his/her mother.
- “Households” or members of the same dwelling are formed from the SRRP (address of “administrative residence” and relationships).
  - First, they are assigned to census addresses with “non-response” status.
  - The rest are assigned at the level of geographic areas (“blocks”, municipalities, towns or provinces).



# Microdata linkage between censuses, surveys and admin registers so far



Thank you

