



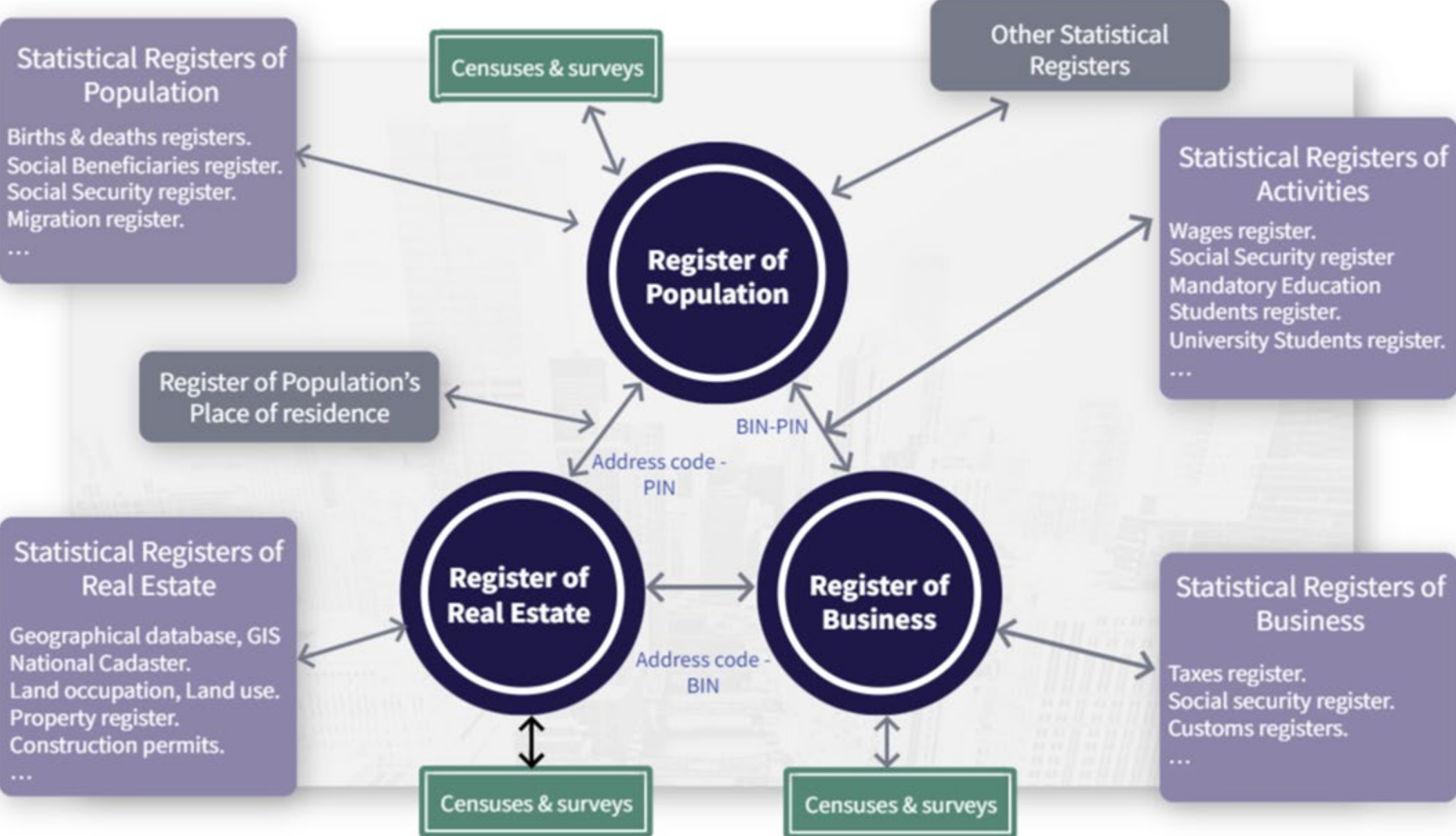
The role of the census in population data systems

Federico Segui

Vice Director General - INE

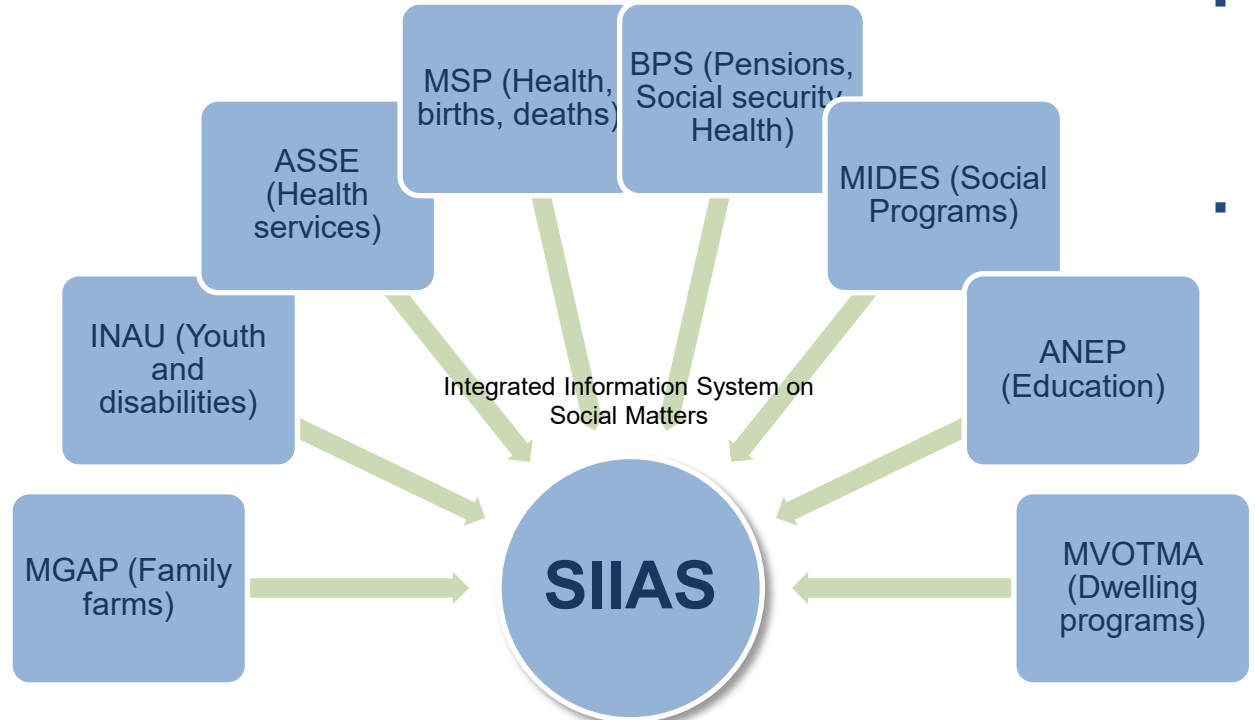
3rd Expert Group meeting on the revision of the UN Principles and Recommendations for the 2030 round of censuses.

System of Integrated Statistical Registers and Surveys (SIREE)

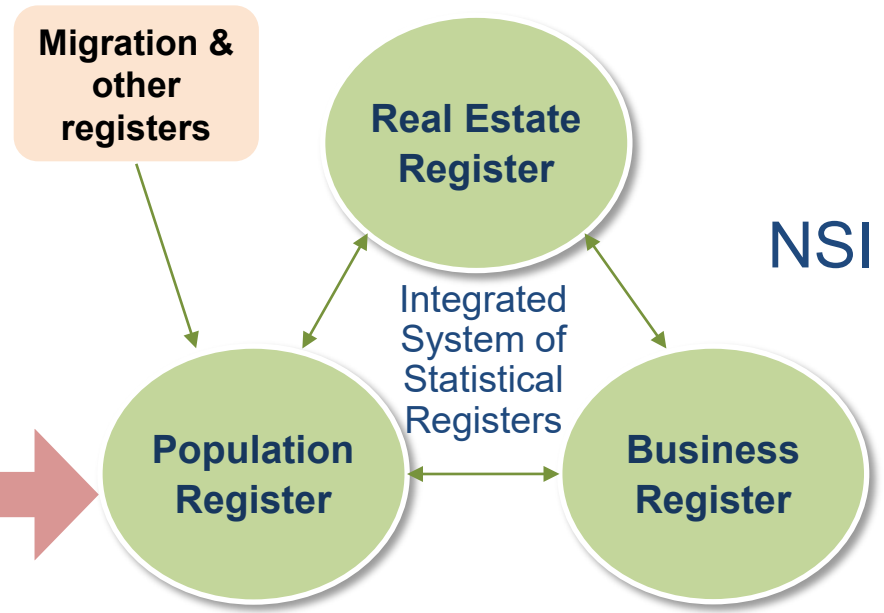
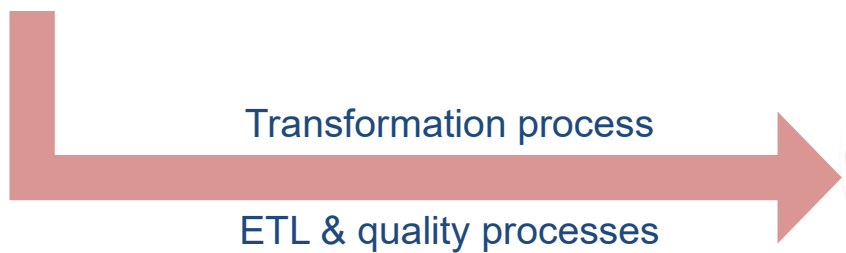


Population Register

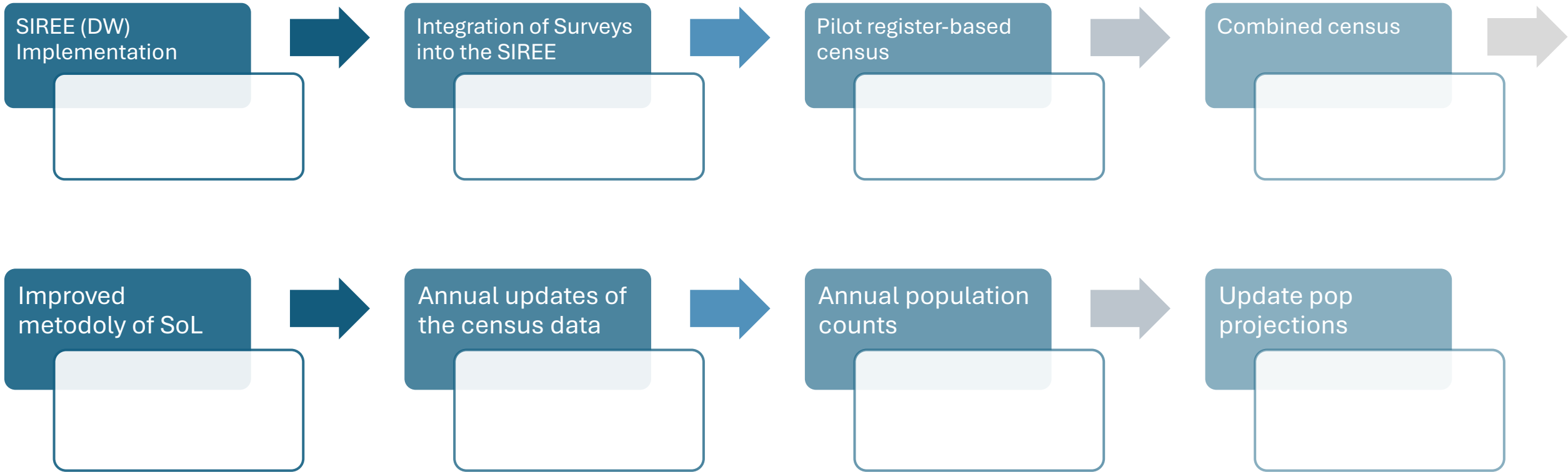
- NSI is member of the SIAS initiative (Ministry of Social Development). SIAS = Integrated Information System on Social Matters.
- 62 administrative registers from 15 institutions (Social Security Authority, Min. Social Development, Min. Dwellings, Min. Agriculture, Min. Health, Public and Private Health 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.



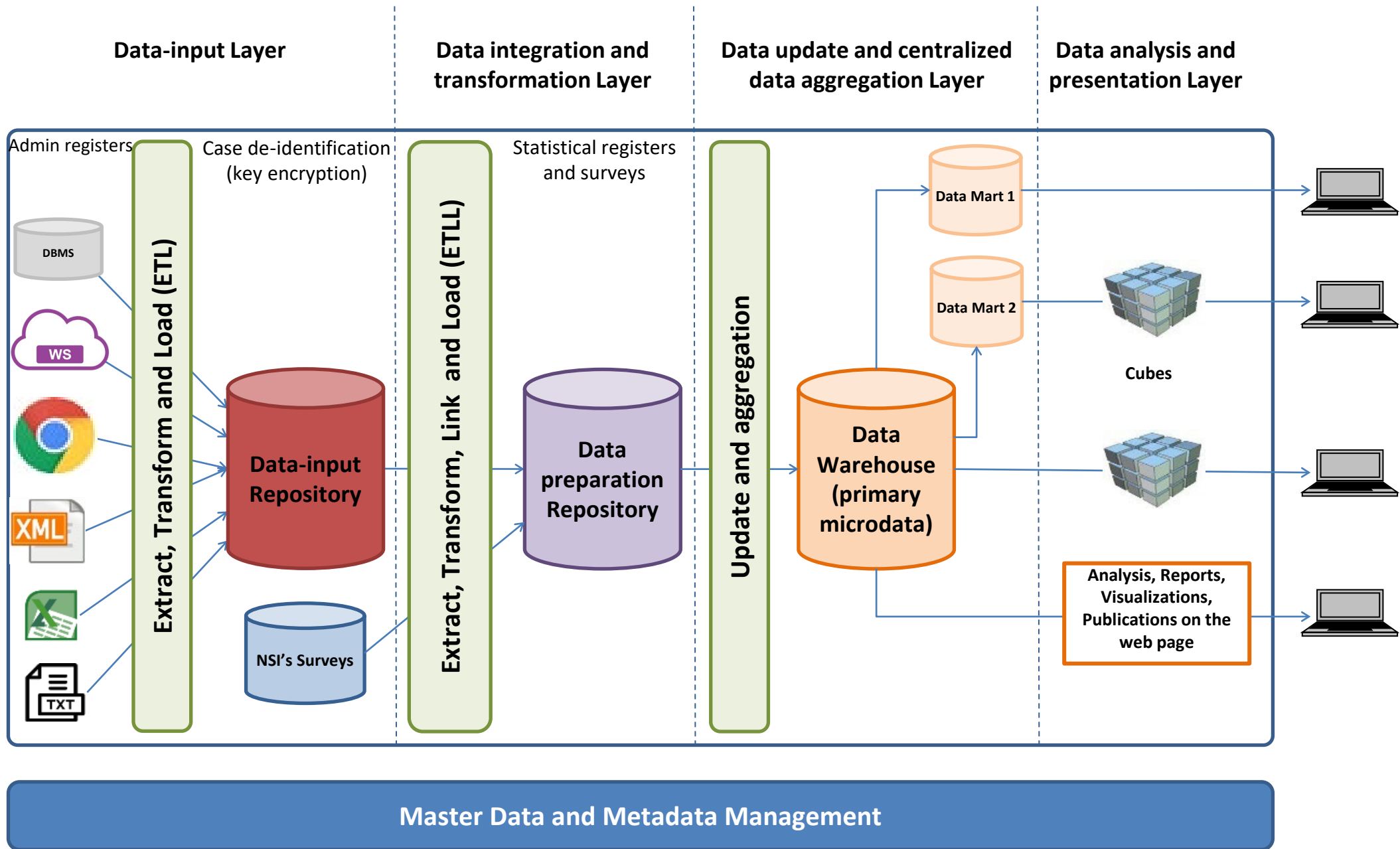
Ministry of Social Development



Main milestones

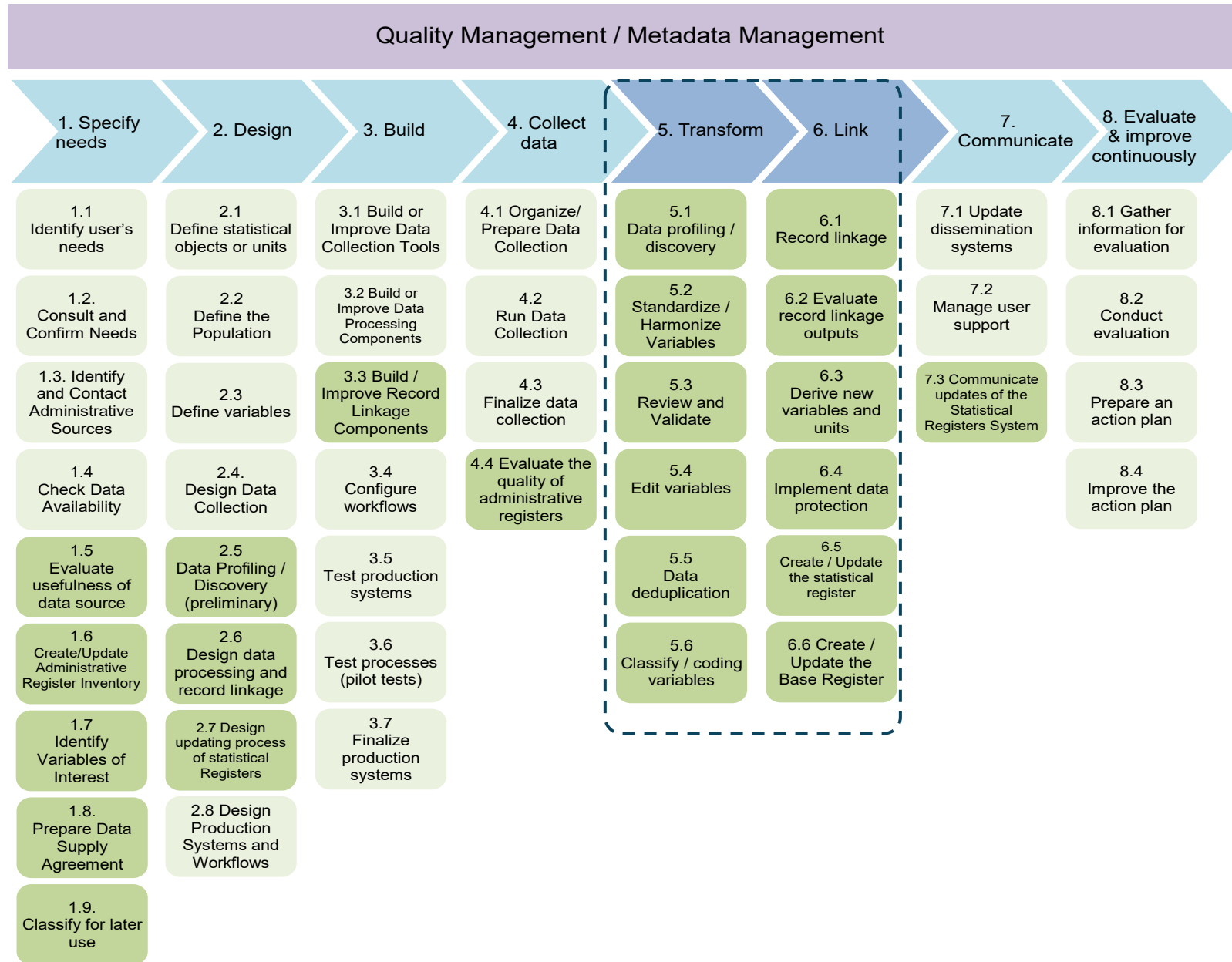


Geo-Statistical Data Warehouse

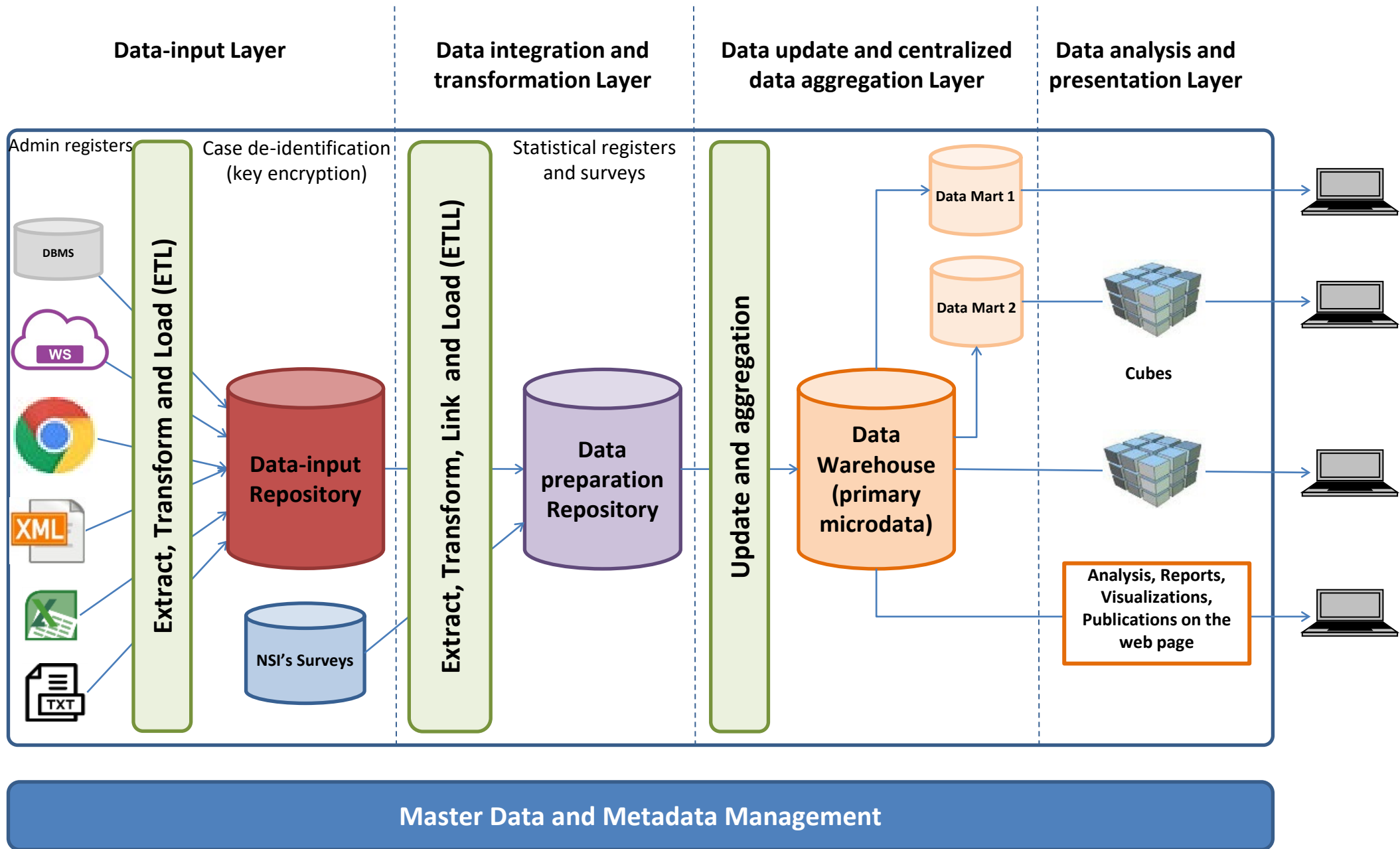


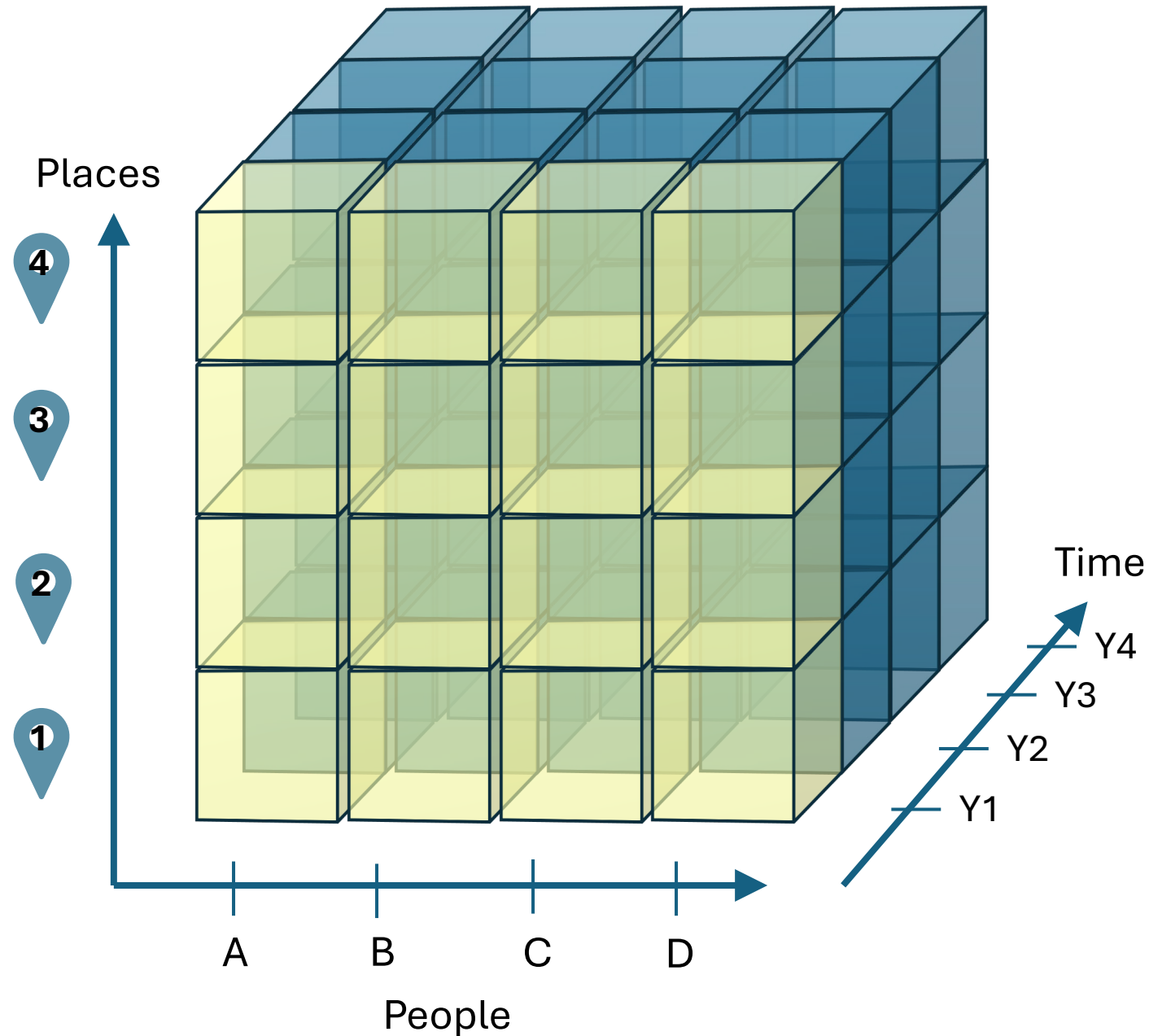
GSRBPM - Generic Statistical Registers Business Process Model

(adapted from GSBPM, UNECE, METIS group)



Geo-Statistical Data Warehouse

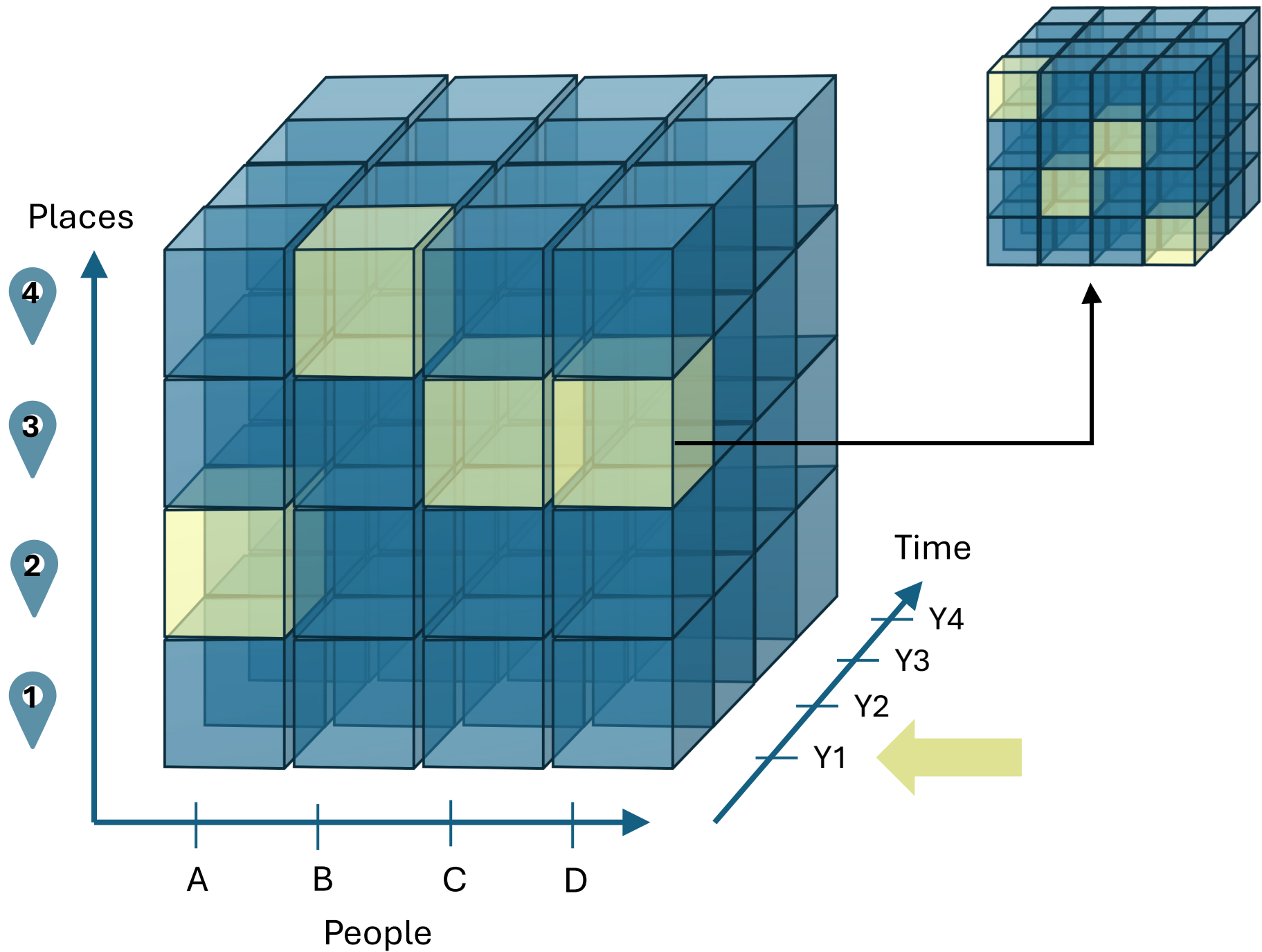


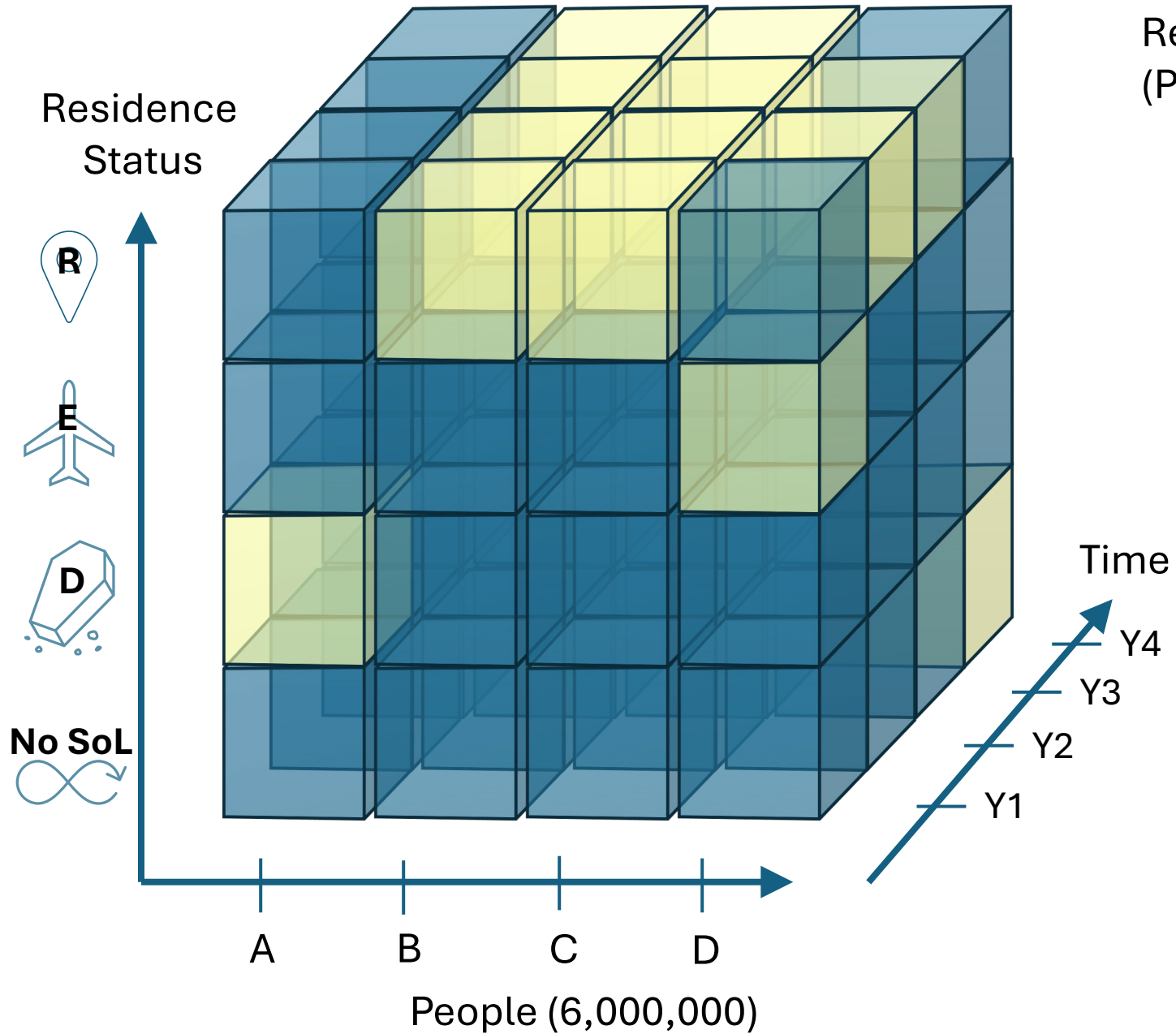


Data Warehouse concepts:
Dimensions: categorical variables (places, people, time).

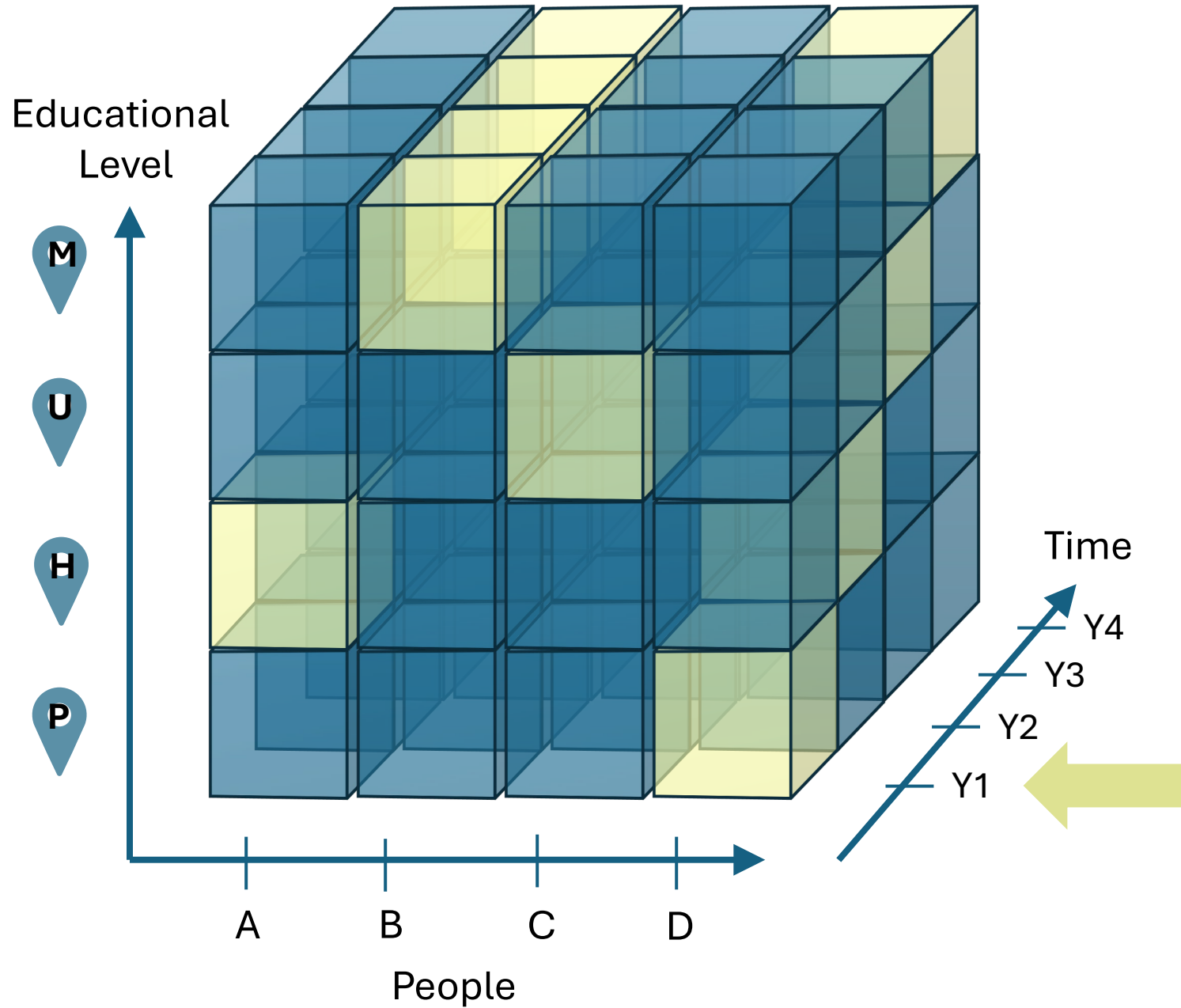
Granularity: level of detail of the data that is stored and managed, level of data aggregation. i.e. microdata level.

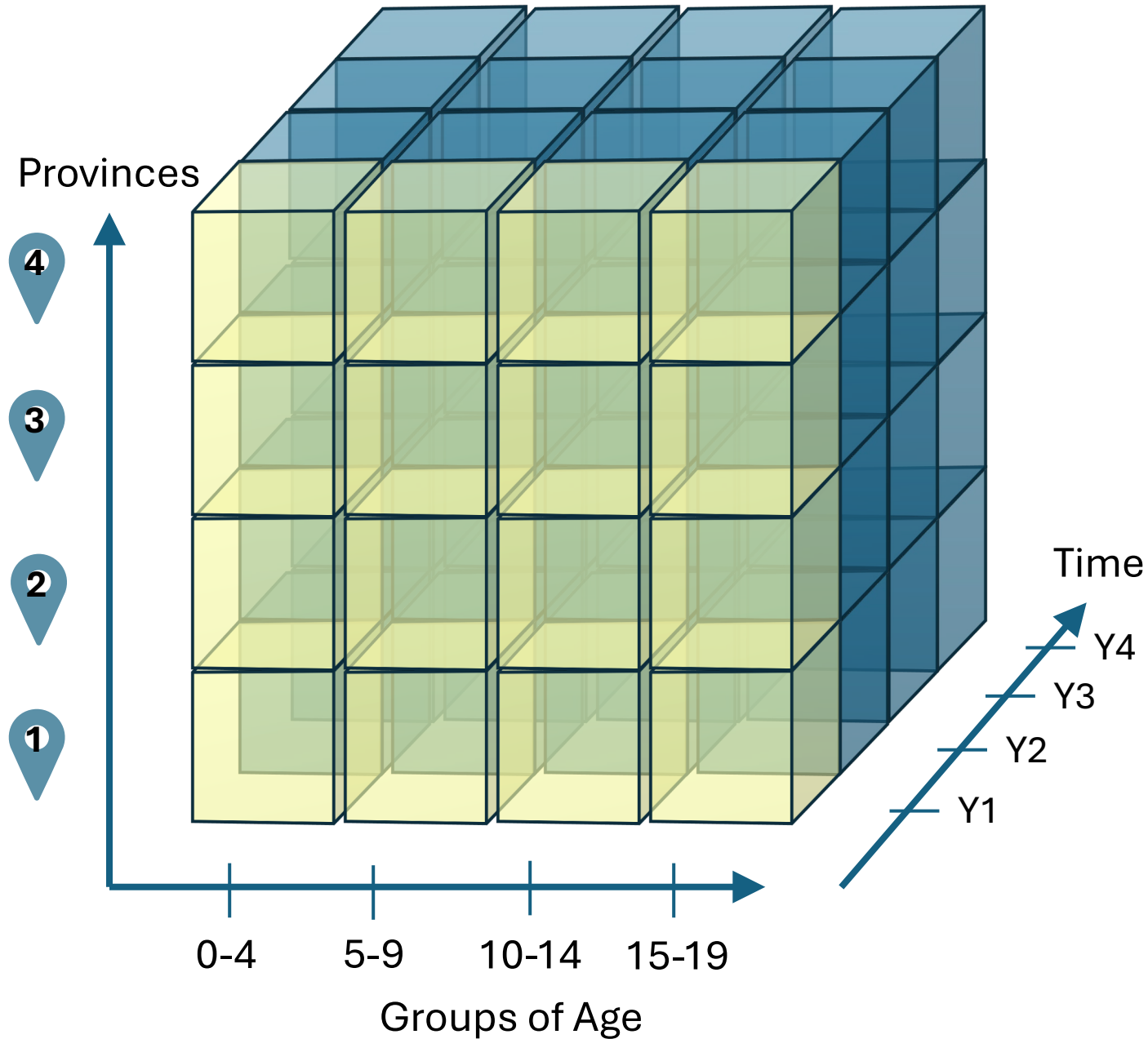
Cells: represent events or facts, i.e. a *person* who has moved to a specific *place* at a specific *time*.





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

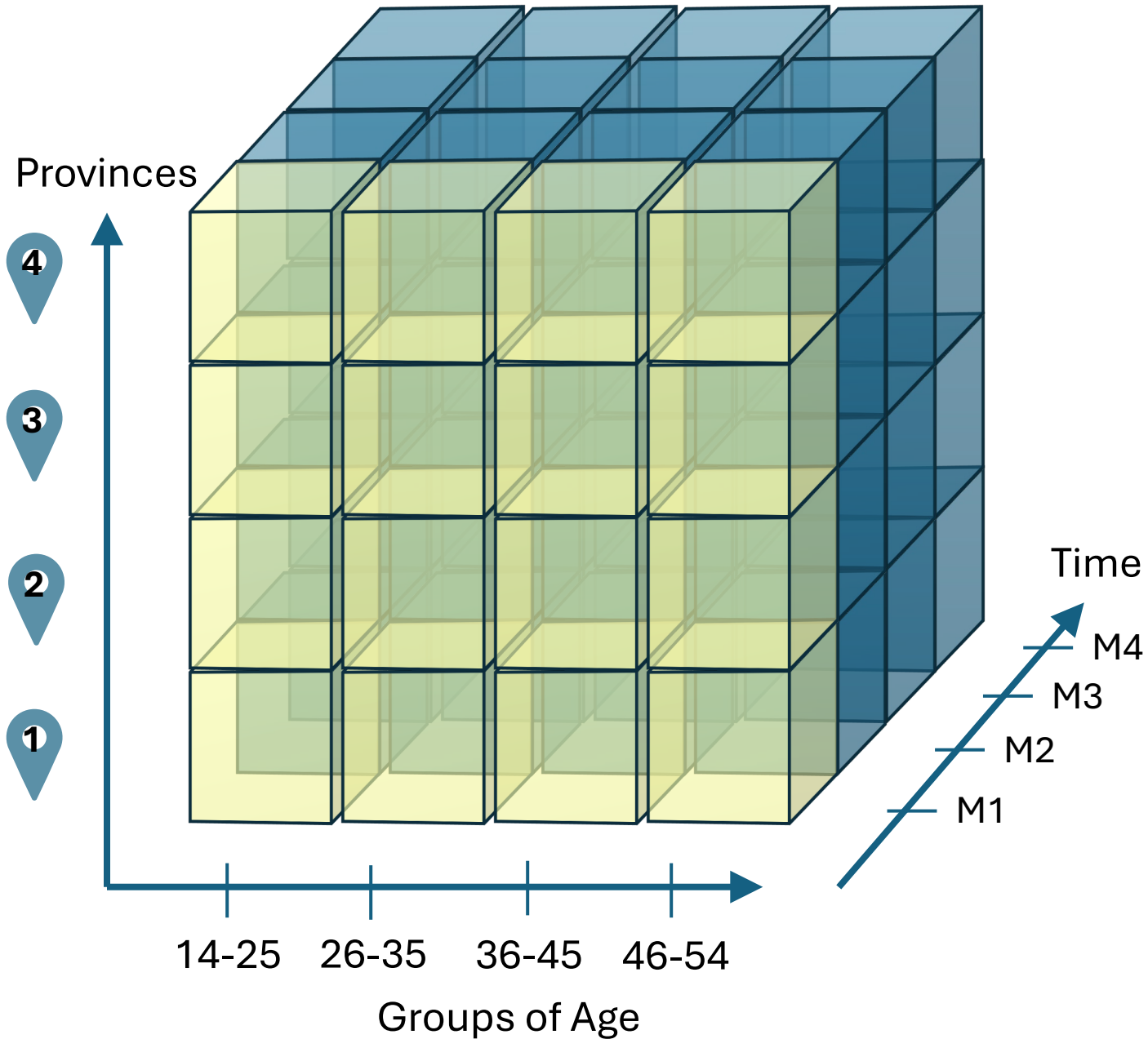




Data Mart: It is a specific version of the DW focused on a specific topic. They are subsets of data with the purpose of facilitate data analysis.

Granularity: aggregated level

Measure: number of people



Surveys: aggregated indicators in data marts. i.e. unemployment rate by month, province and age groups.