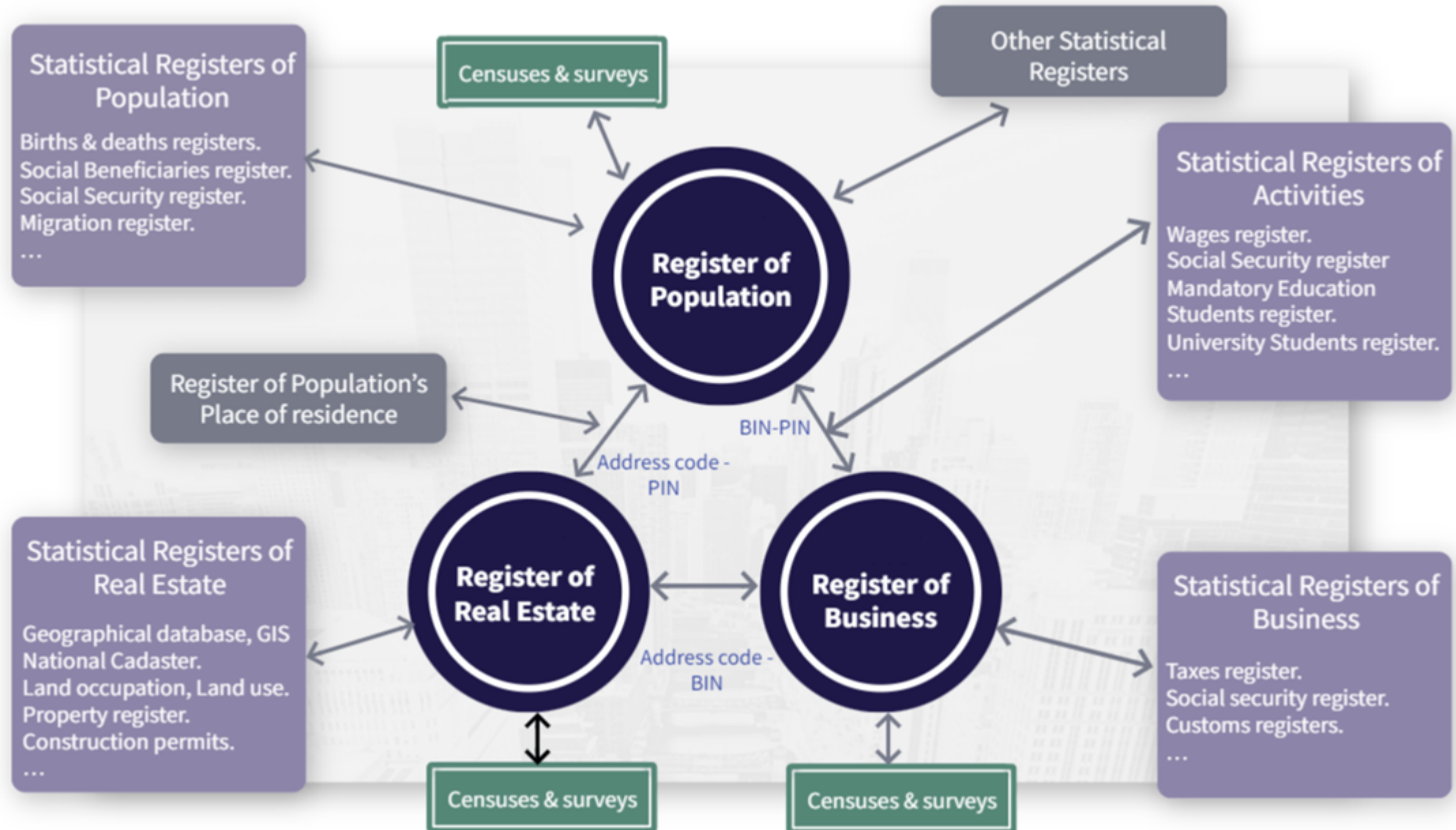


# **Building modern and resilient population data systems to enhance data quality, improve cost efficiency and policy relevance**

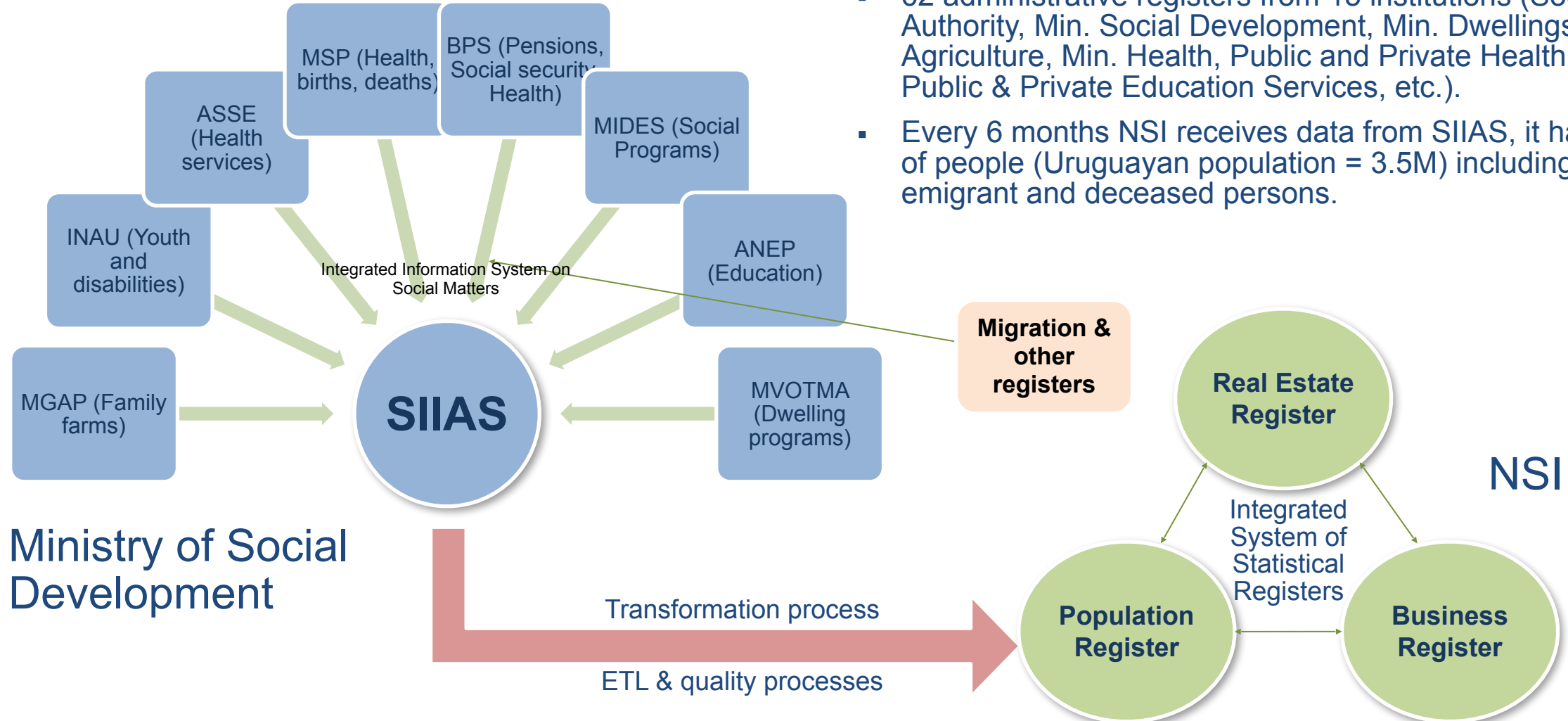
Federico Segui  
Vice Director General - INE

# System of Integrated Statistical Registers and Surveys (SIREE)

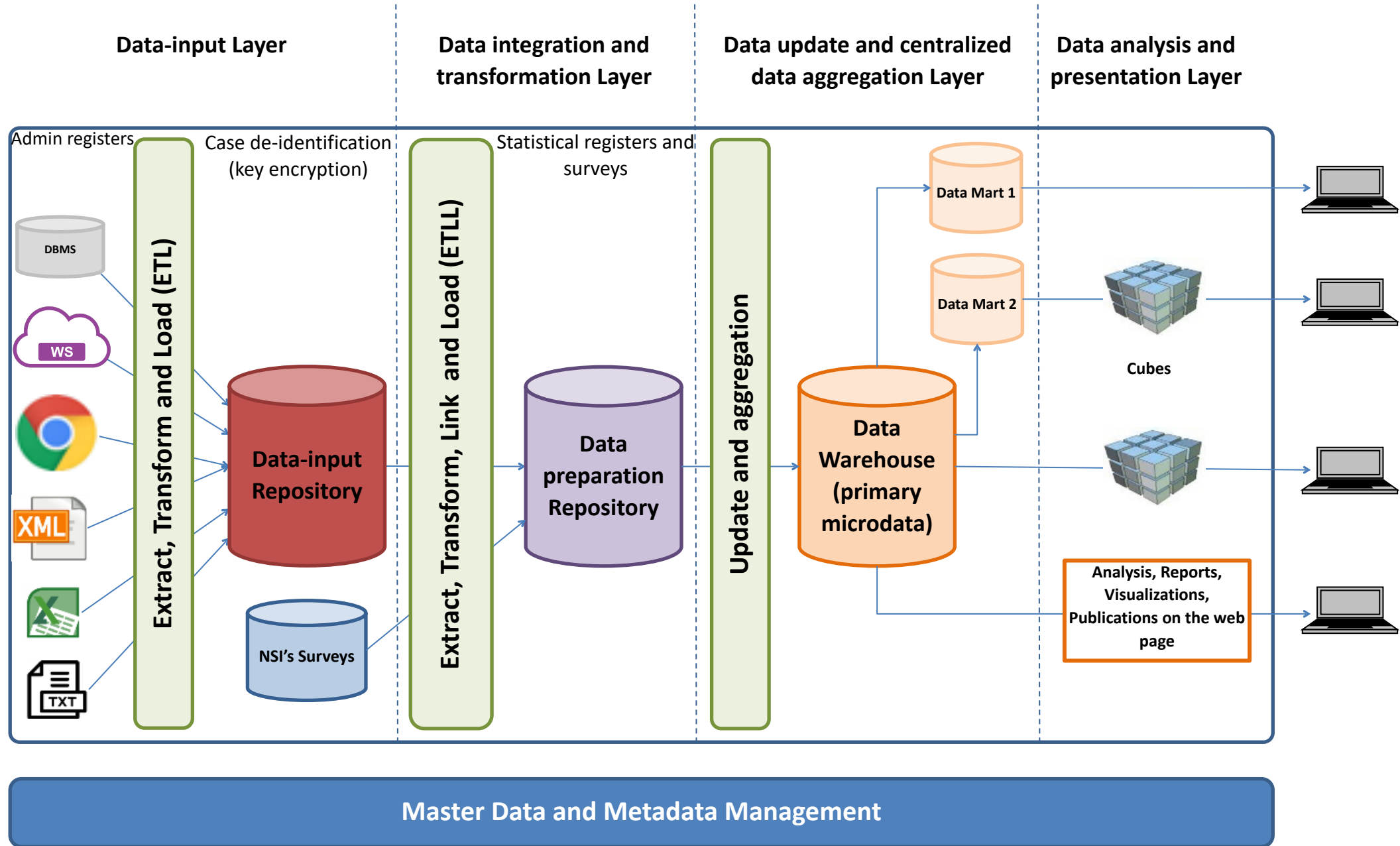


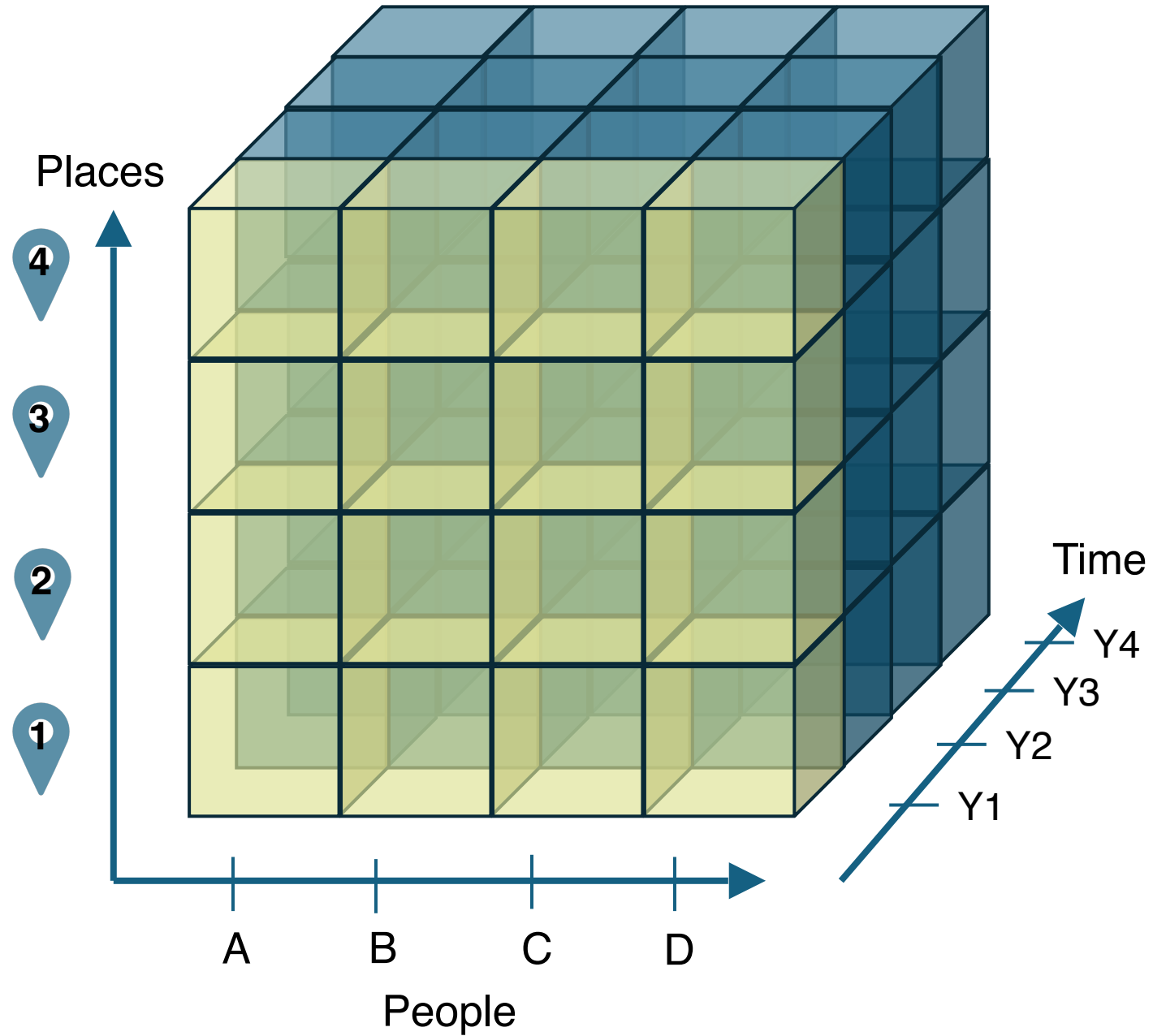
# Statistical Population Register

- NSI is member of the SIIAS initiative (Ministry of Social Development). SIIAS = 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 SIIAS, it has 4.5 millions of people (Uruguayan population = 3.5M) including foreign, emigrant and deceased persons.



# Geo-Statistical Data Warehouse

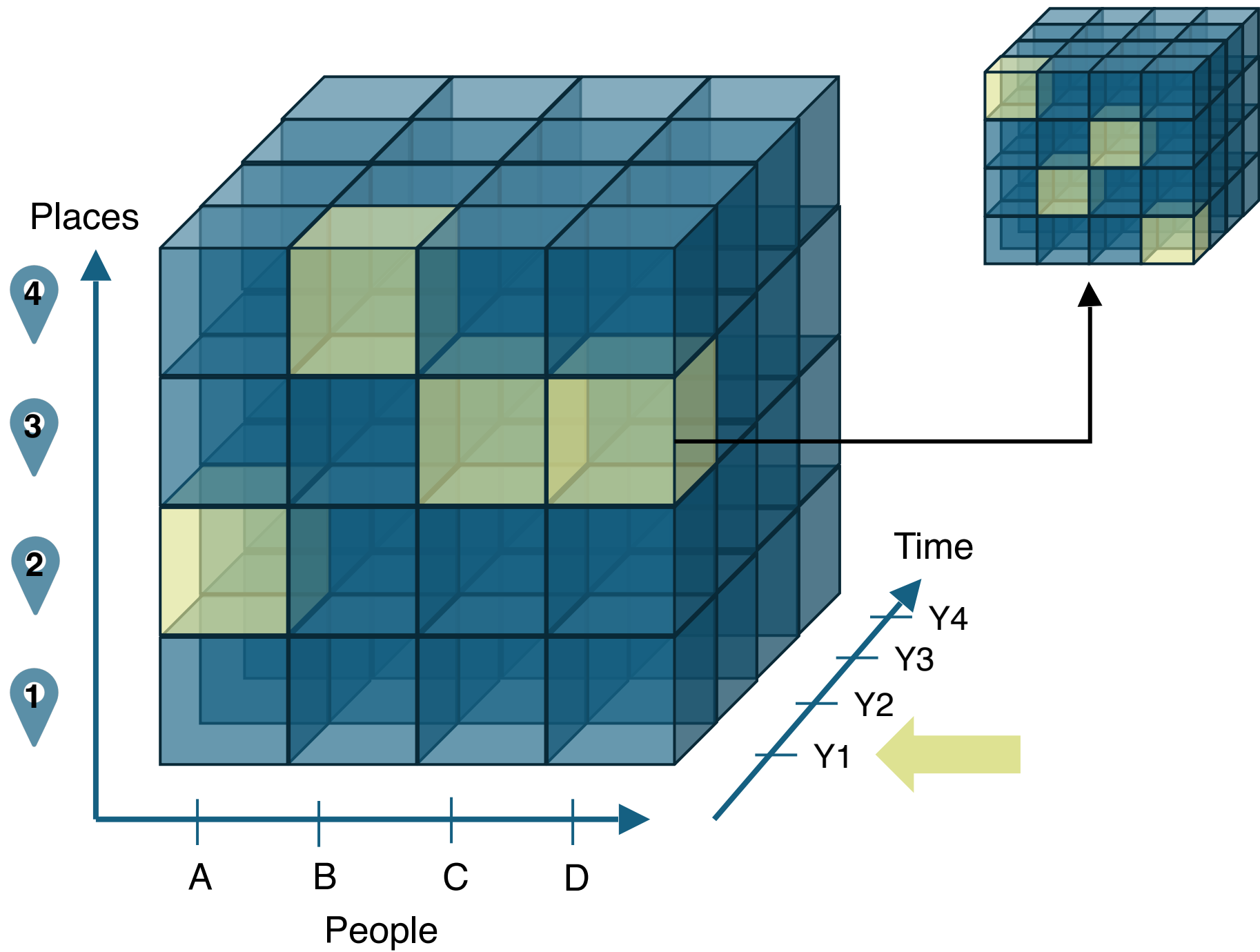


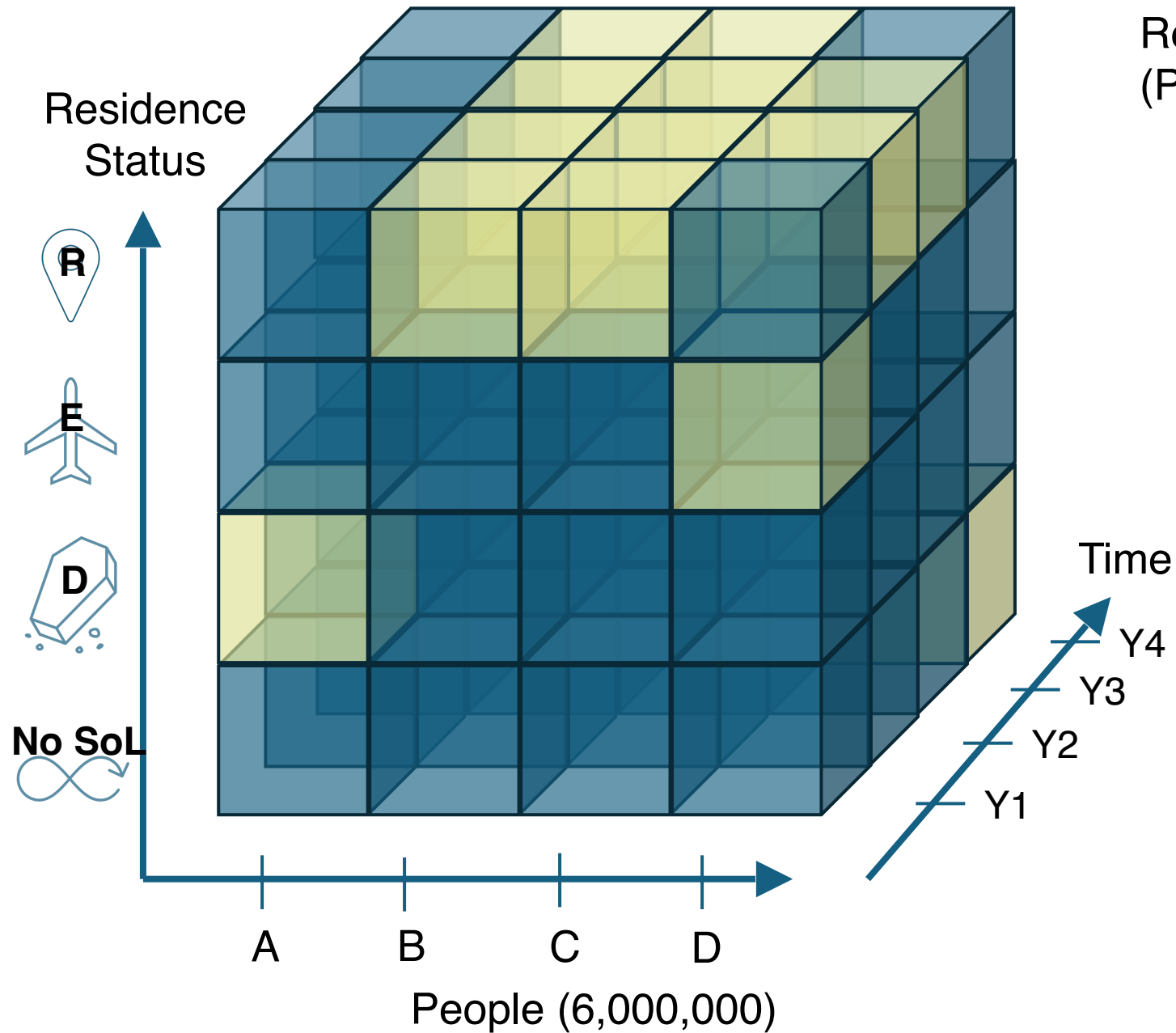


Data Warehouse concepts:  
*Dimensions*: categorical variables (places, people, time).

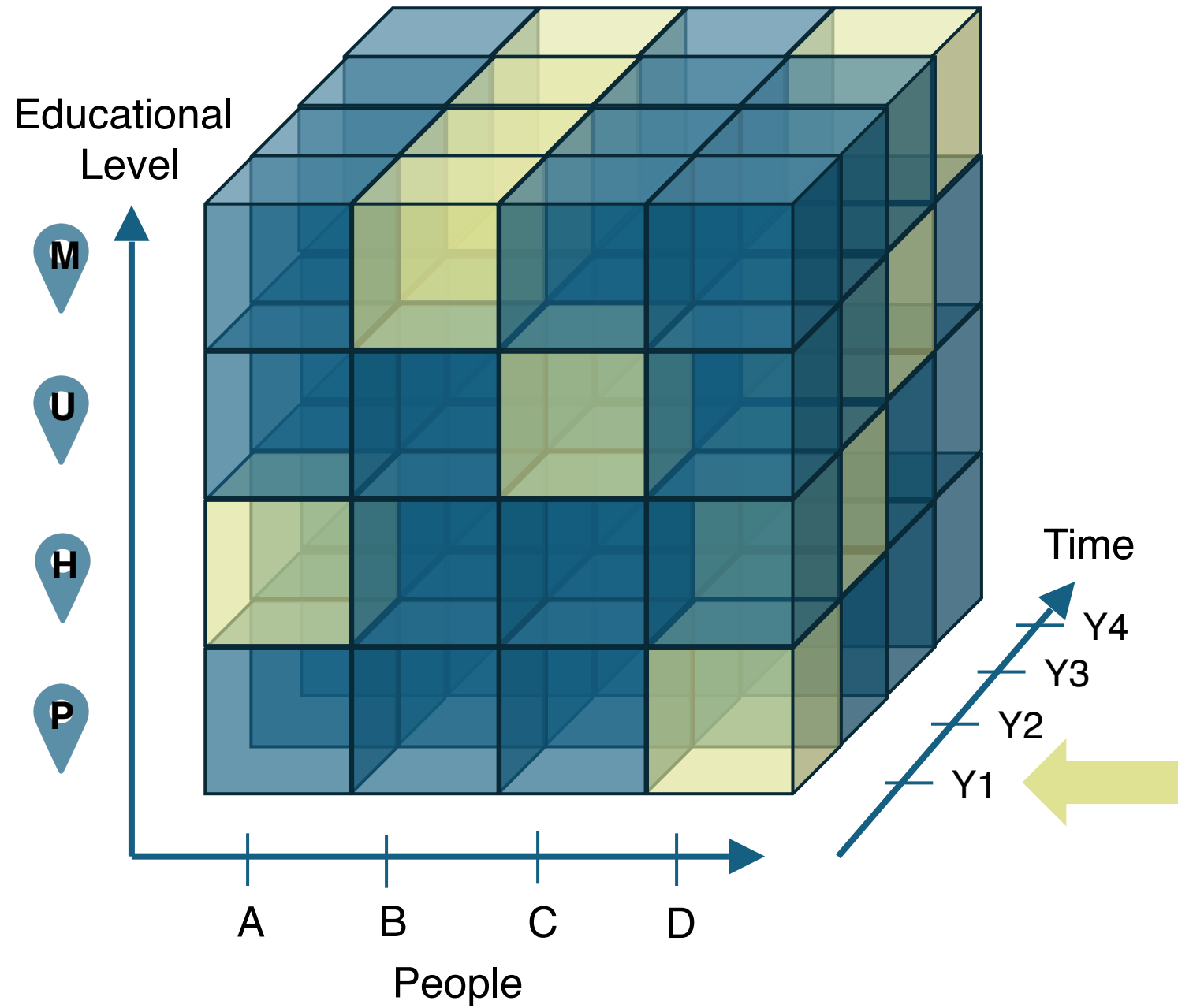
*Granularity*: level of detail of the data that is stored and managed, level of data aggregation. i.e. microdata level.

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

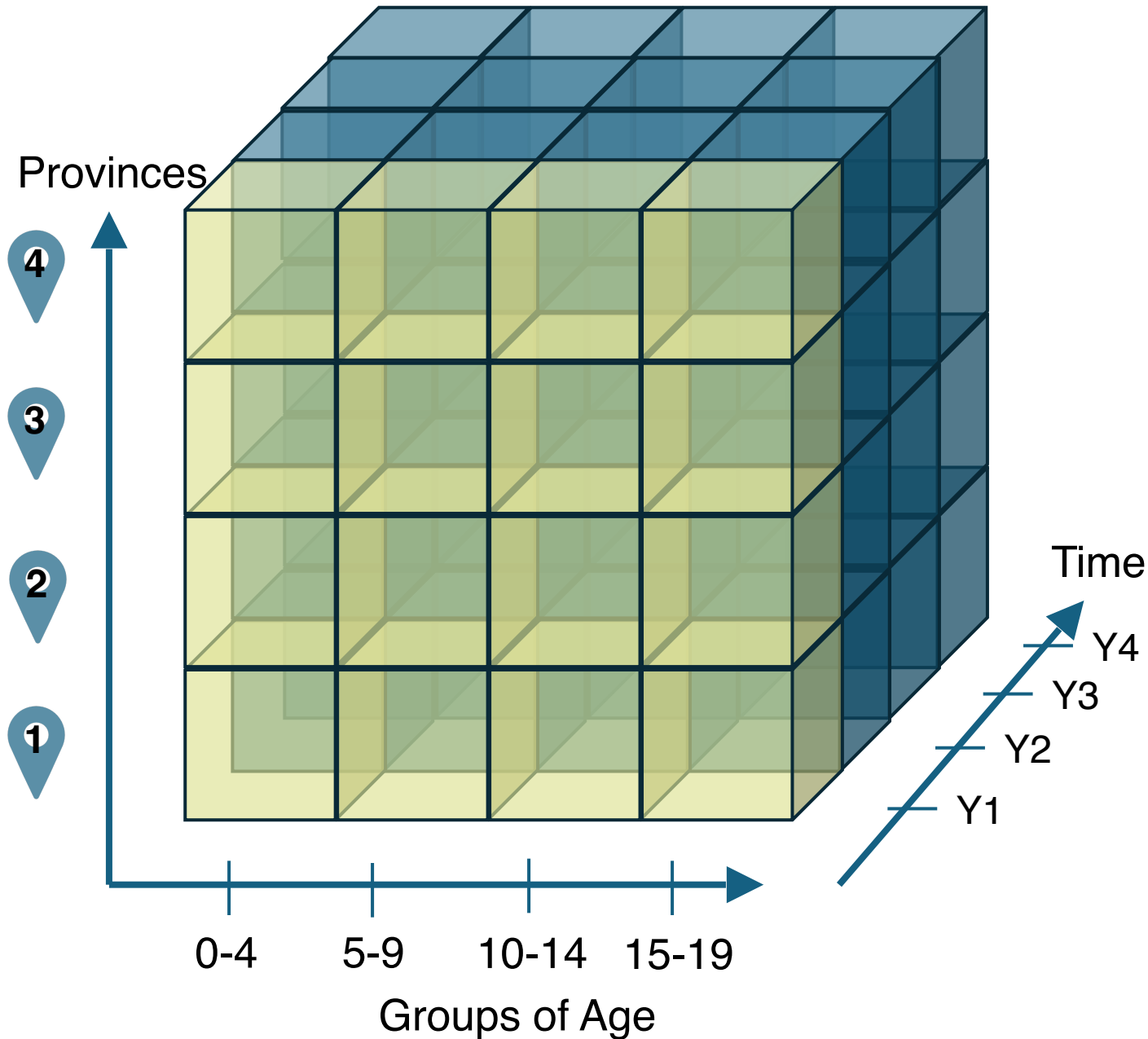




Resident People at year 1  
(Pop. Register 3,500,000)



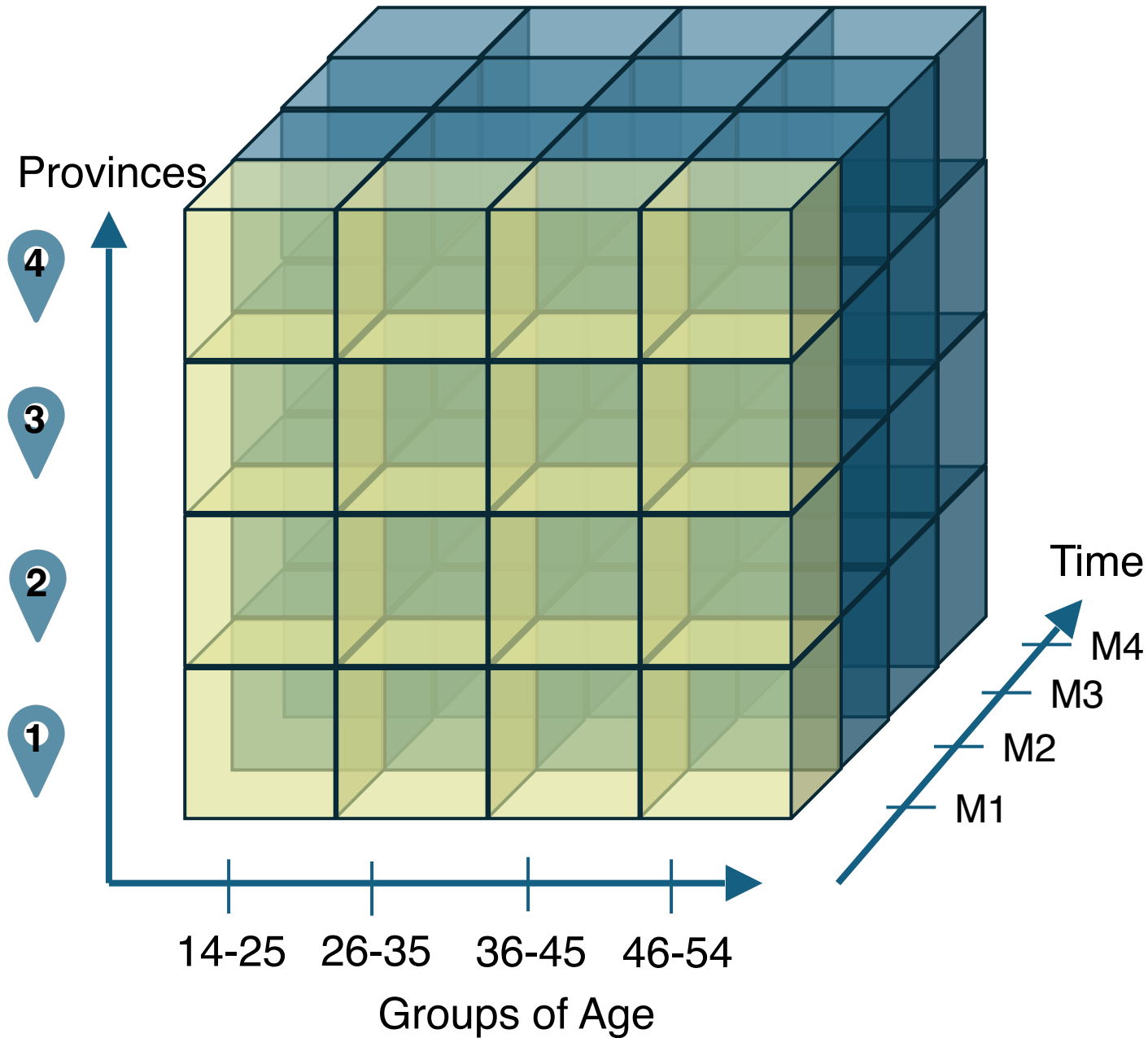




*Data Mart:* It is a specific version of the DW focused on a specific topic. They are subsets of data with the purpose of facilitate data analysis.

*Granularity:* aggregated level

*Measure:* number of people



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