

# Setting up statistical registers of individuals and dwellings in France : approach and first steps

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**1 WHY A STATISTICAL FRENCH REGISTER**

**2 HOW TO BUILD THE REGISTER**

**3 ETHICAL AND LEGAL ISSUES**

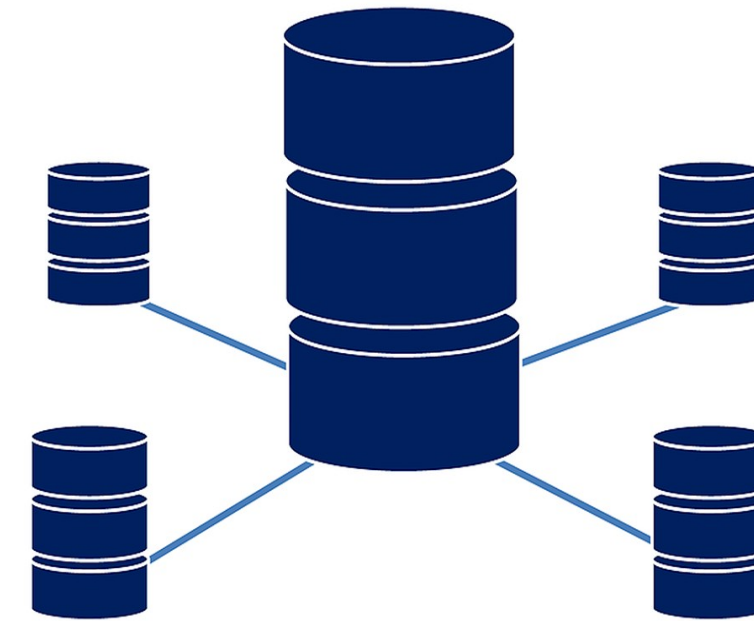
# 01 **1 WHY A FRENCH STATISTICAL REGISTER**

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# WHAT DO WE NEED?



**A SAMPLING FRAME**



**A MATCHING FRAME**



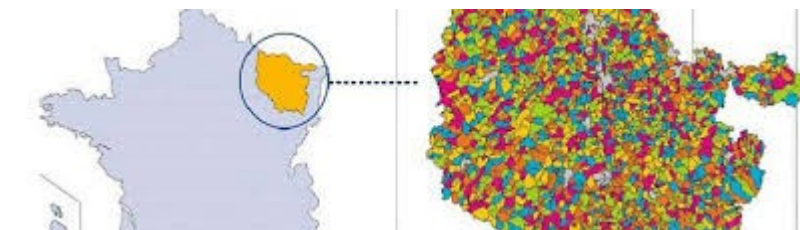
**SAMPLING FRAME DEPENDS ONLY ON FISCAL DATA**



**THE QUALITY OF OTHER ADMIN DATA IMPROVES**



**ROLLING CENSUS**





## ACCESS TO PUBLIC AND PRIVATE SOURCES

**ADMINISTRATIVES REGISTER OF INDIVIDUALS  
BUT NOT LOCALISED**



**STATISTICAL, NON SIGNIFICANT, CODE  
ONLY FOR STATISTICAL LINKAGES**



## COMBINE MORE ADMINISTRATIVE DATA FOR OUR FRAMES

(SIGNS OF LIFE MODEL)

## USE THE ROLLING CENSUS TO ASSESS THE QUALITY

(DUAL SYSTEM ESTIMATION MODEL)



## BENEFITS FROM THE EXPERIENCES OF OTHER NSI



## EXPLAIN, INSPIRE TRUST, BE CLEAR ABOUT WHAT WE DO



# 02 1 HOW TO BUILD IT

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## 2 LIVES REGISTERS

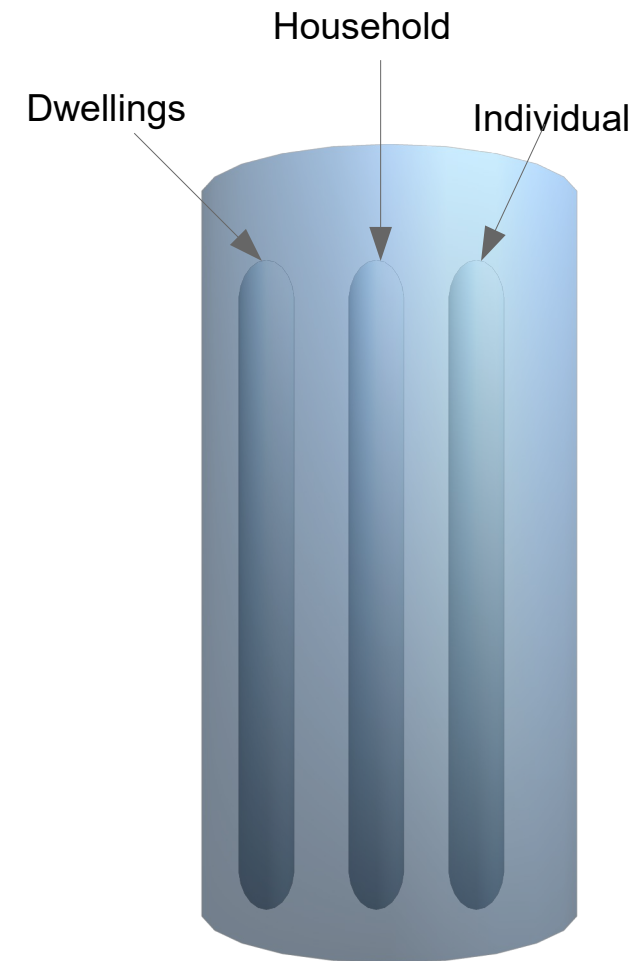
– Individuals and Dwellings



## 3 services

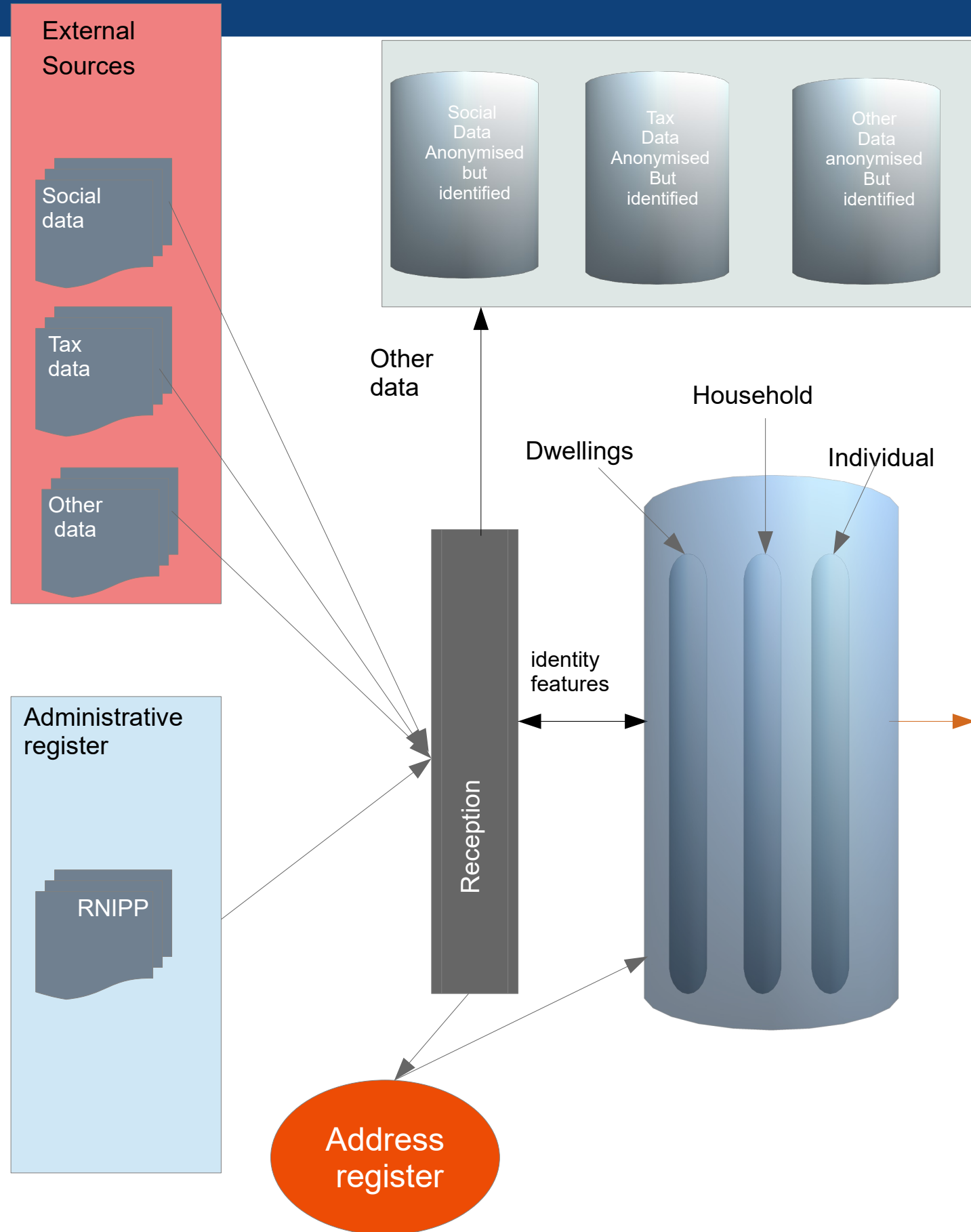
- Reception and identification of administrative Data
- Frozen frame construction (individuals, dwellings and household)
- Construction of enriched files by matching

# THE PROCESSES ENVISAGED

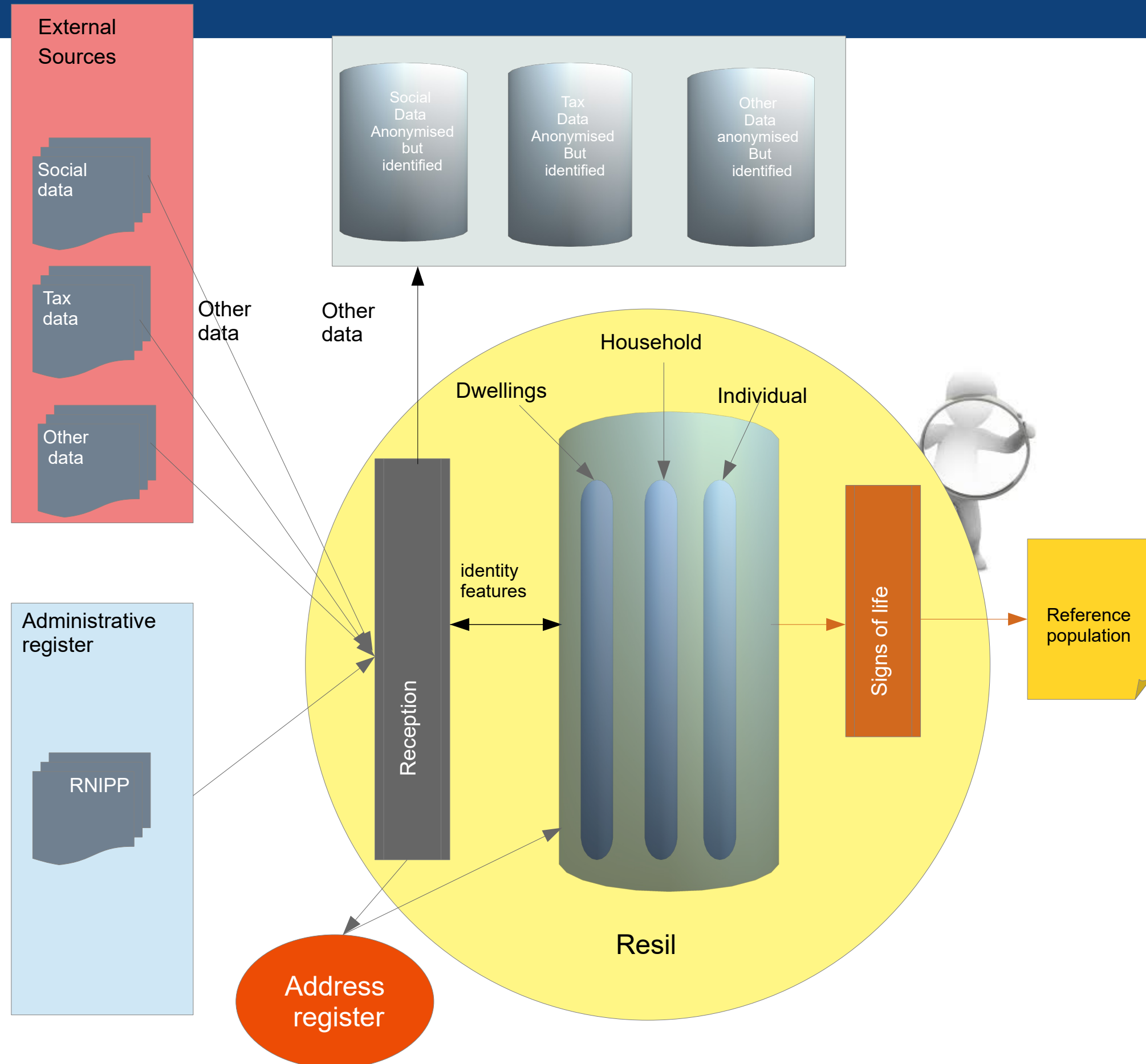


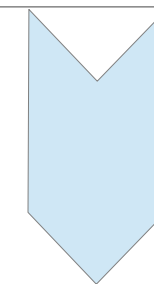
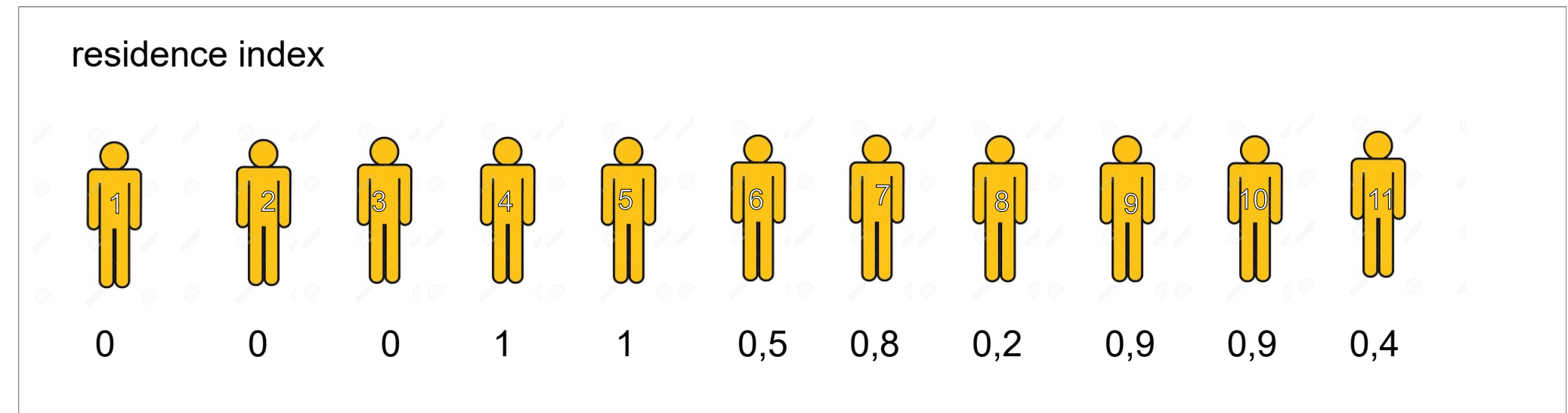
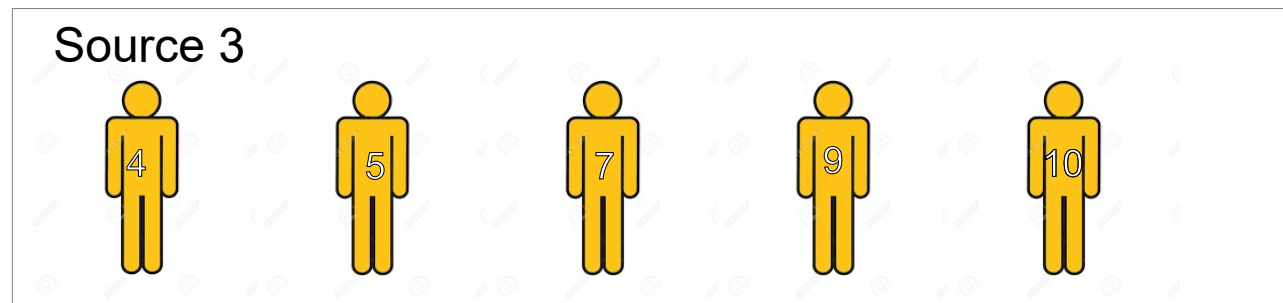
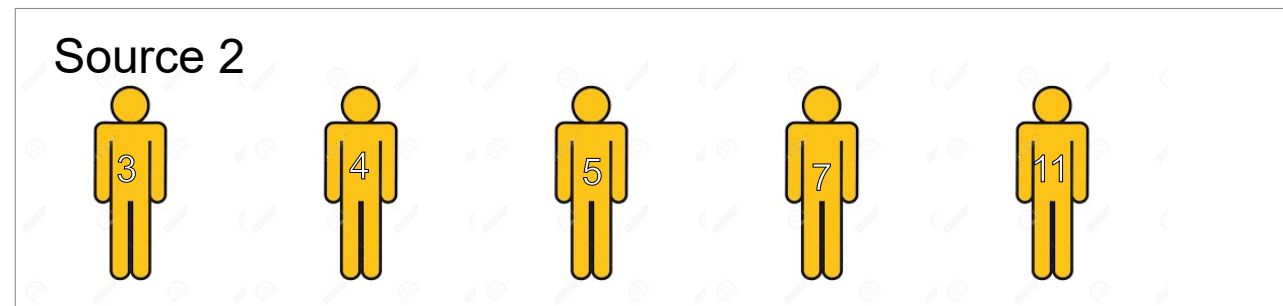
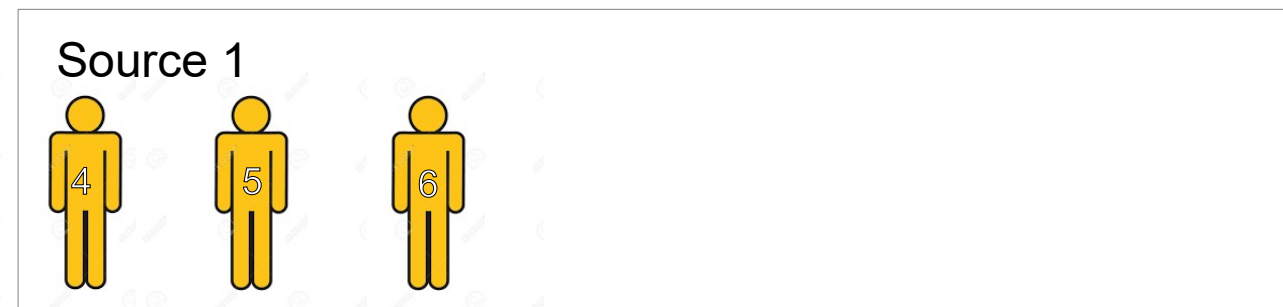
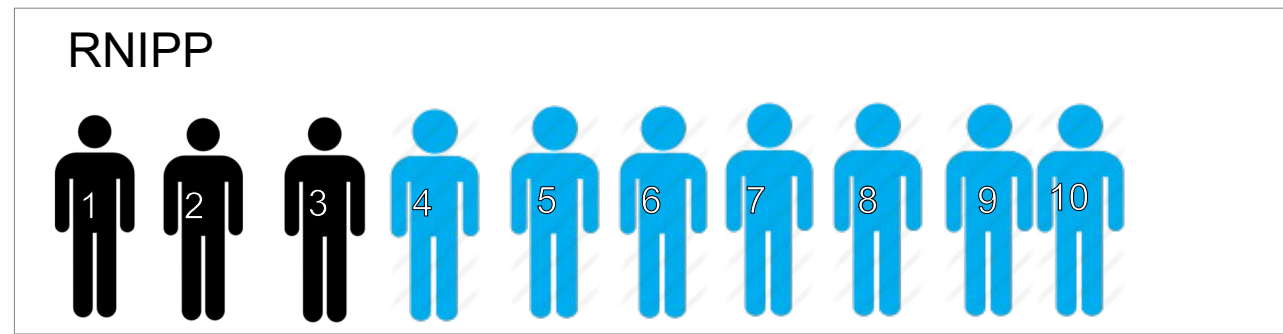
The heart : registers with a limited number of variables, only for identification

# THE PROCESSES ENVISAGED



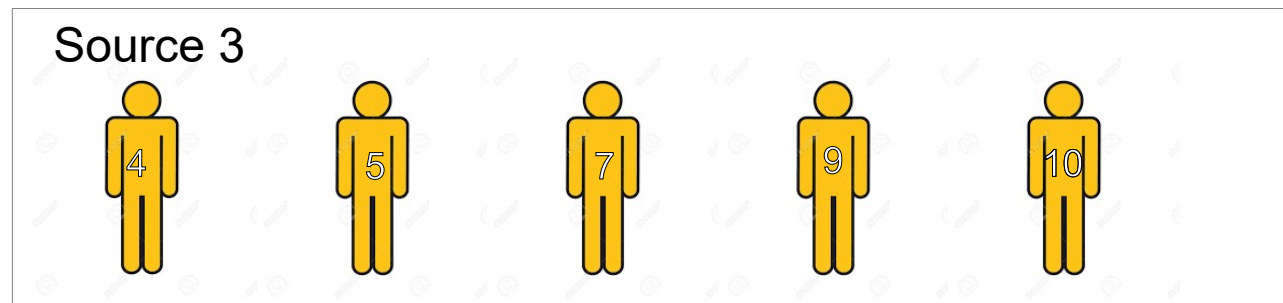
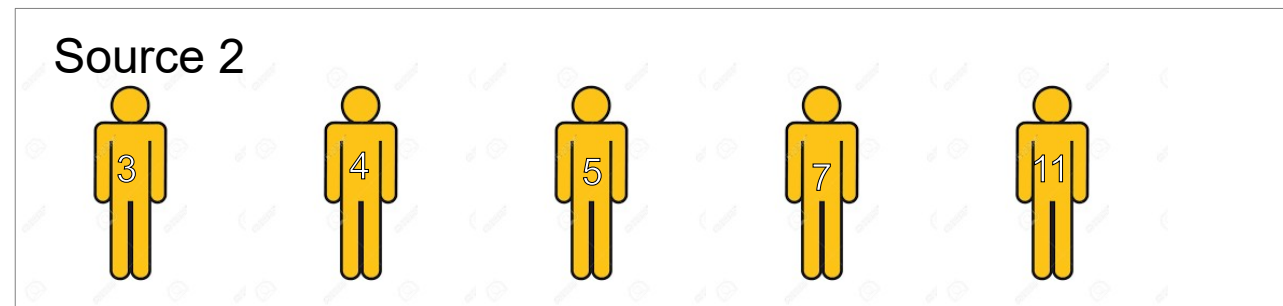
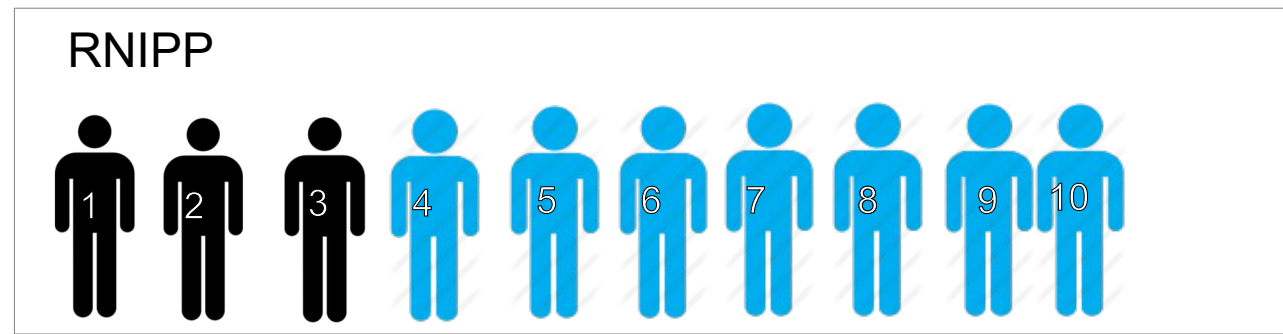
# THE PROCESSES ENVISAGED



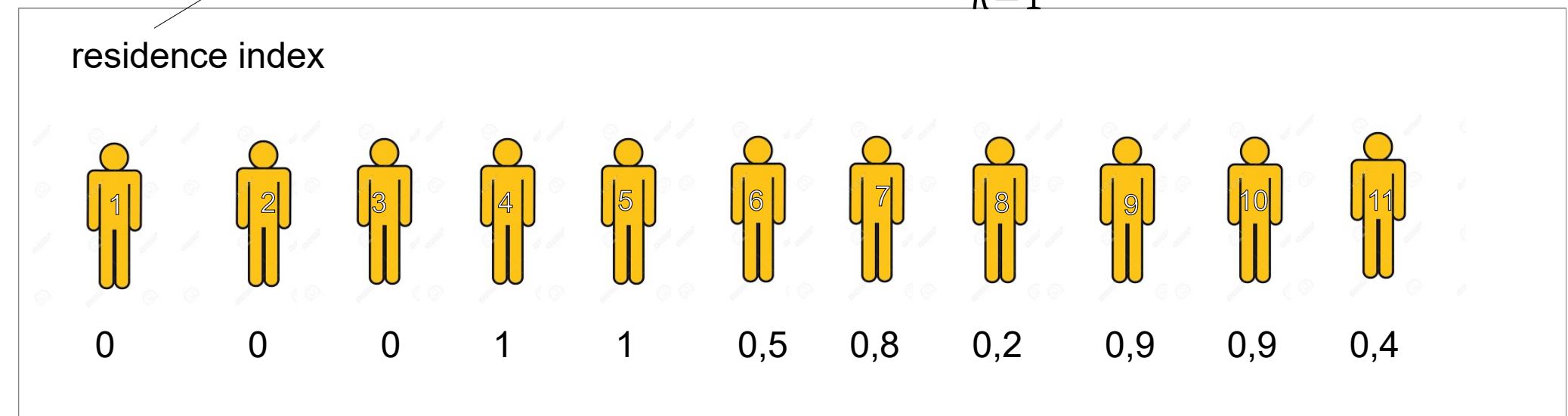


threshold = 0,5

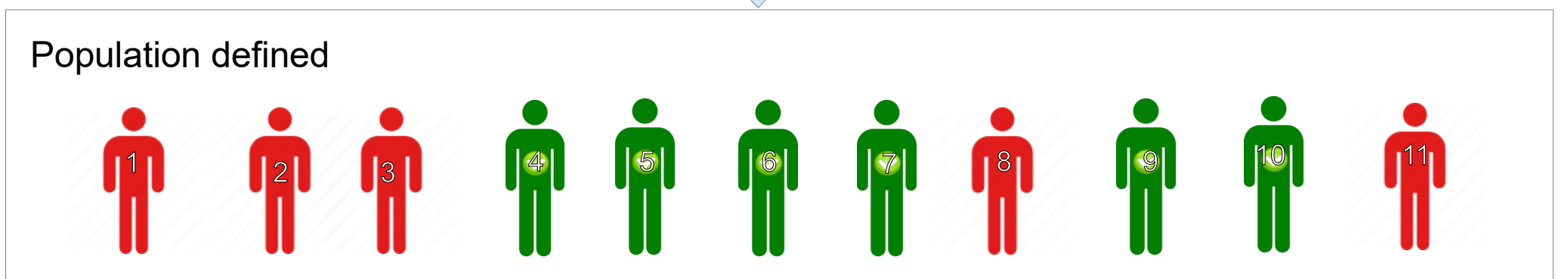




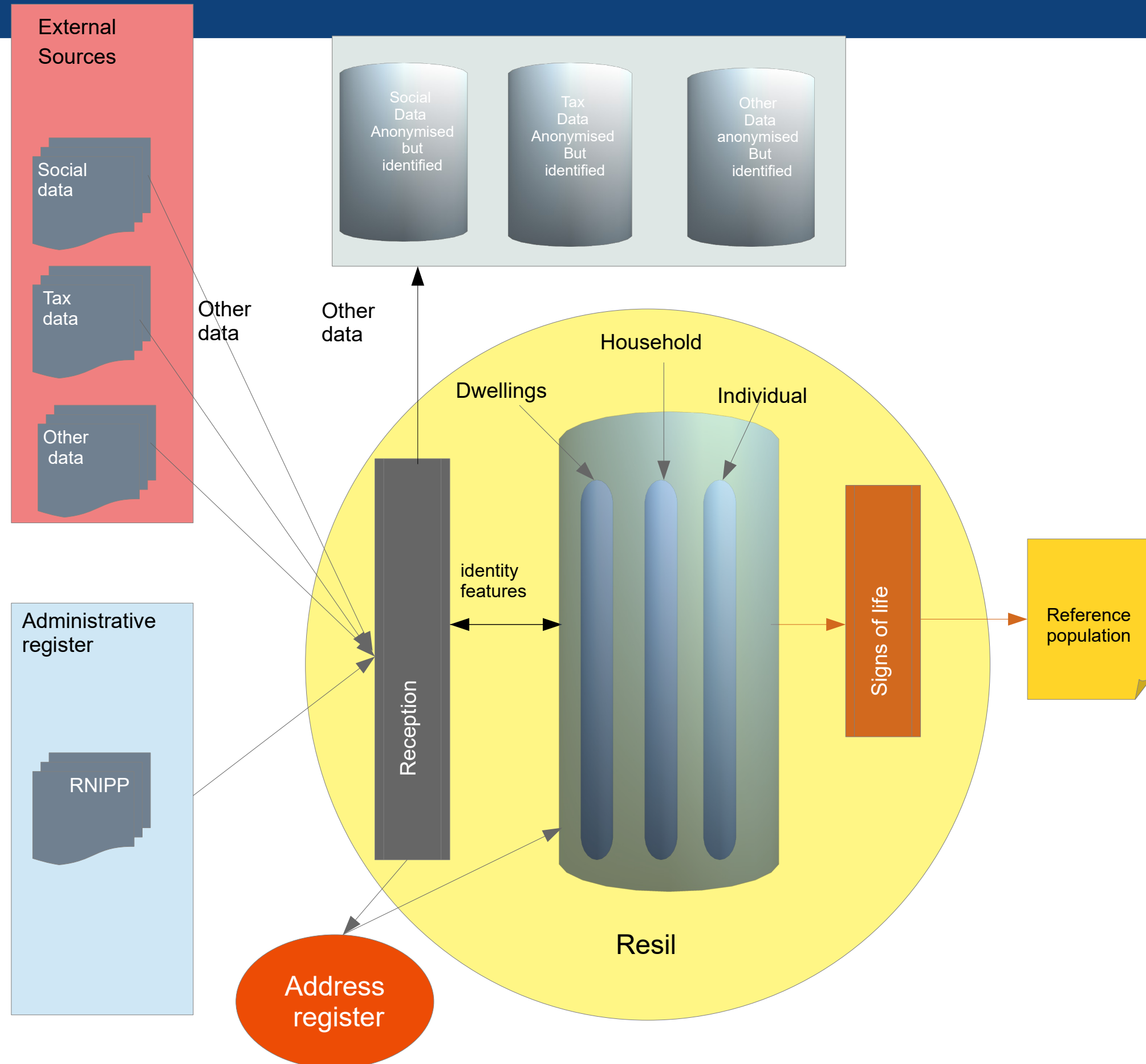
$$I(i,t) = \alpha \cdot I(i,t-1) + \beta \cdot \sum_{k=1}^{k=m} a_k(i,t) \cdot E_k(i,t)$$



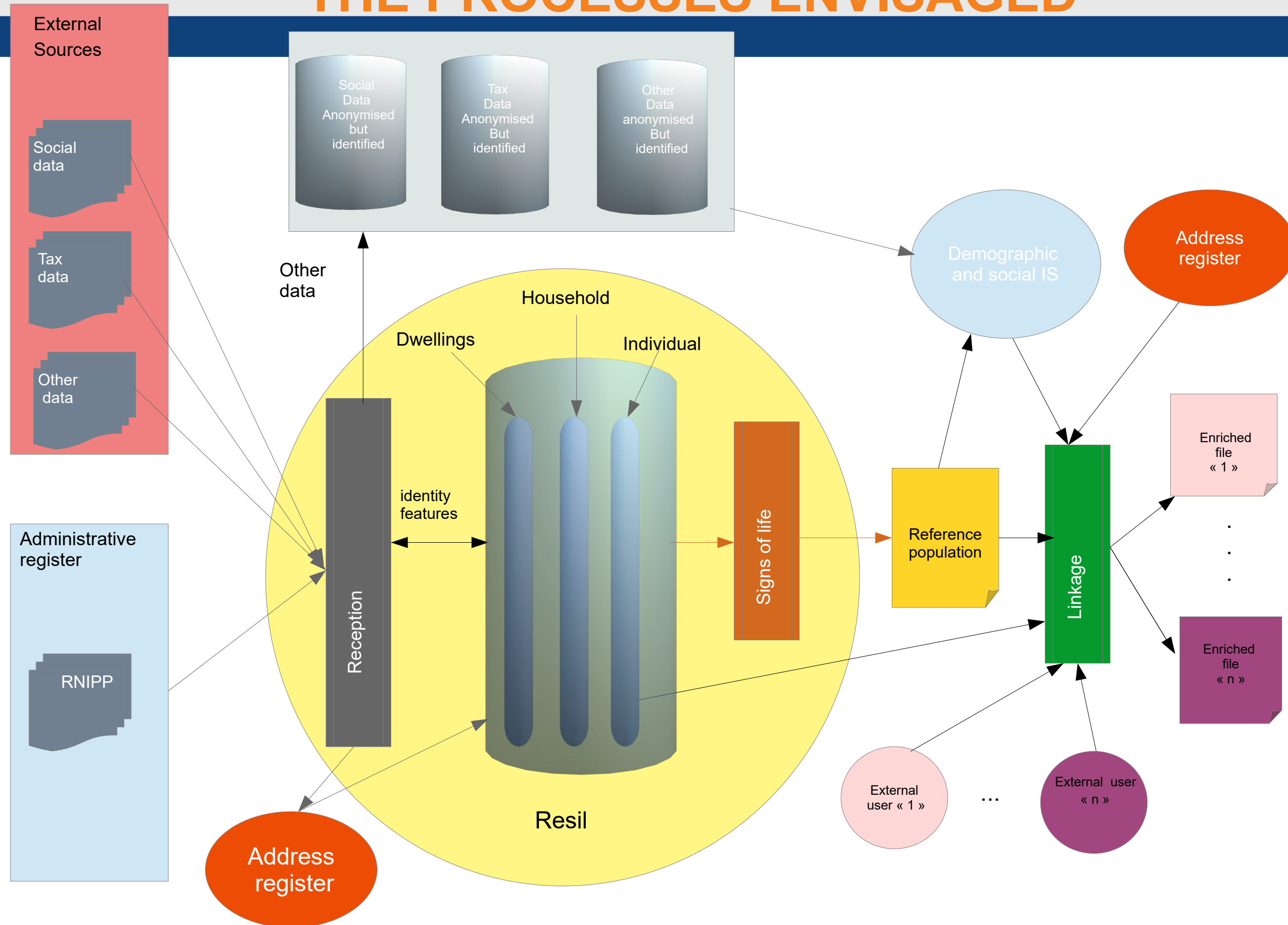
threshold = 0,5



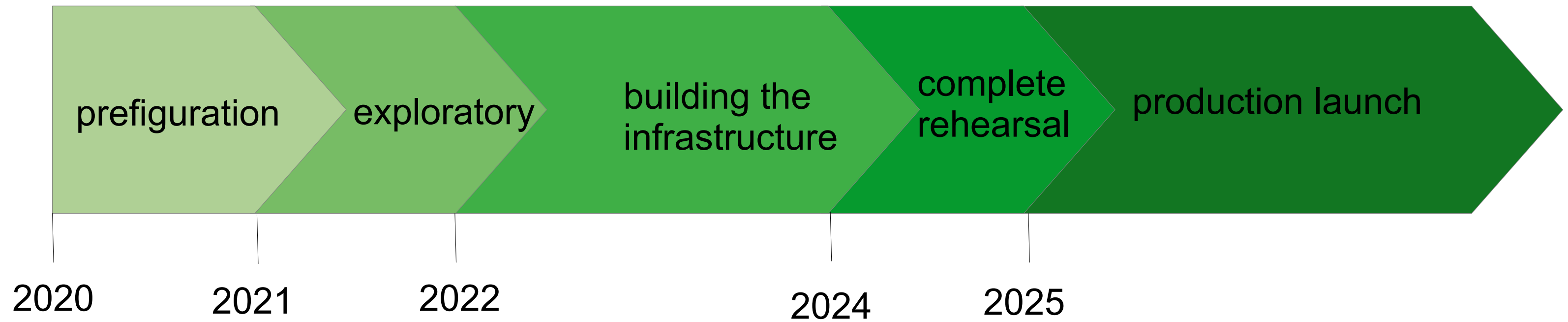
# THE PROCESSES ENVISAGED



# THE PROCESSES ENVISAGED









## SIMILAR PROJECT

## DATA LINKAGE SOFTWARE



## SIGN OF LIFE METHODOLOGY

## DSE METHODOLOGY



## COMMUNICATION

# 03 1 ETHICAL AND LEGAL ISSUES

## CURRENT LEGAL FRAMEWORK SUFFICIENT

- 1951 Law on the obligation, coordination and secrecy of statistic
- 1978 Law relating to data processing, files and freedoms compliant with GDPR
- 2016 Law for a Digital Republic



## BUT DECISION TO PUT IN PLACE A SPECIFIC HIGH-LEVEL DECREE TO GIVE VISIBILITY AND STRENGTHEN THE LEGITIMACY OF RESIL

- consultation of national authority for data protection

## NEED FOR CONCERT TO ENSURE THAT USERS AND CIVIL SOCIETY SUPPORT THE PROJECT

- be transparent about the use and matching of administrative data
- to reassure on the respect of the confidentiality of the data



ecnm	edum	MHPROB	MAXPROB
1351807	22156212	0.999920577	0.999999905
1351807	22012943	0.999961325	0.999999958
1351808	22012942	0.999966663	0.999999977
1351848	22554659	0.999953925	0.999960064
1351890	22131492	0.999973069	0.999999909
1351873	22150146	0.999999628	0.999999999
1351974	22150142	0.999999372	1
1351997	22179974	0.998765535	0.999999017
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ecnm	edum	MHPROB	MAXPROB
1352095	22195002	0.999195016	0.999945425
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1352098	22118645	0.999673733	0.999999080
1352098	22153638	0.999617373	0.999999472
1352039	22133649	0.999971107	0.999999976
1352040	22133650	0.999987730	0.999999994
1352057	22033962	0.999999896	0.999999938
1352063	22195020	0.999924515	0.999999992
1352081	22195003	0.999929238	0.999999995

## ORGANISATION OF MEETINGS OPEN TO AN AUDIENCE BEYOND STATISTICIANS (JANUARY 2022)

## SETTING UP A CONSULTATION GROUP (MAY-SEPTEMBER 2022)

- Citizen representatives and qualified persons
- Identifies fears
- proposes answers and considers support throughout the project and after implementation



## AMBITIOUS PROJECT

- Methodological issues
- data access issues
- Need for a social mandate



**BUILD ON INTERNATIONAL EXPERIENCES**

**USES THE ROLLING CENSUS DATA**

## Retrouvez-nous sur

[insee.fr](https://www.insee.fr)



Thanks for your attention

Some questions ?

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