

The background of the slide is white, decorated with a pattern of starburst or floral-like shapes. These shapes are composed of small dots and are scattered across the page. The colors used for these shapes are various shades of red, pink, and brown, creating a festive or celebratory feel.

# **Lo studio longitudinale romano (ROLS)**

Matteo Renzi

29/10/2020

# Quando?

20 Ottobre 2001



CENSIMENTI PERMANENTI  
**POPOLAZIONE  
E ABITAZIONI**

# Letteratura

## Long-Term Exposure to Urban Air Pollution and Mortality in a Cohort of More than a Million Adults in Rome

**Giulia Cesaroni,<sup>1</sup> Chiara Badaloni,<sup>1</sup> Claudio Gariazzo,<sup>2</sup> Massimo Stafoggia,<sup>1</sup> Roberto Sozzi,<sup>3</sup> Marina Davoli,<sup>1</sup> and Francesco Forastiere<sup>1</sup>**

<sup>1</sup>Department of Epidemiology, Lazio Regional Health Service, Rome, Italy; <sup>2</sup>Italian Workers' Compensation Authority (INAIL), Rome, Italy; <sup>3</sup>Regional Environmental Protection Agency, Rome, Italy

## Nitrogen dioxide levels estimated from land use regression models several years apart and association with mortality in a large cohort study

Giulia Cesaroni<sup>1\*</sup>, Daniela Porta<sup>1</sup>, Chiara Badaloni<sup>1</sup>, Massimo Stafoggia<sup>1</sup>, Marloes Eeftens<sup>2</sup>, Kees Meliefste<sup>2</sup> and Francesco Forastiere<sup>1</sup>

## Effects of long-term exposure to particulate matter and metal components on mortality in the Rome longitudinal study

Chiara Badaloni<sup>a,\*,1</sup>, Giulia Cesaroni<sup>a,1</sup>, Francesco Cerza<sup>a</sup>, Marina Davoli<sup>a</sup>, Bert Brunekreef<sup>b,c</sup>, Francesco Forastiere<sup>a</sup>

<sup>a</sup> Department of Epidemiology, Lazio Regional Health Service, ASL Roma 1, Rome, Italy

<sup>b</sup> Institute for Risk Assessment Science, Utrecht University, Utrecht, The Netherlands

<sup>c</sup> Department of Epidemiology, Julius Center for Health Sciences and Primary Care, University Medical Center Utrecht, Utrecht, The Netherlands

## Air pollution and occurrence of type 2 diabetes in a large cohort study

Matteo Renzi<sup>a,\*</sup>, Francesco Cerza<sup>a</sup>, Claudio Gariazzo<sup>b</sup>, Nera Agabiti<sup>a</sup>, Silvia Cascini<sup>a</sup>, Riccardo Di Domenicantonio<sup>a</sup>, Marina Davoli<sup>a</sup>, Francesco Forastiere<sup>a</sup>, Giulia Cesaroni<sup>a</sup>

<sup>a</sup> Decio Regional Health Service, ASL Roma 1, Rome, Italy

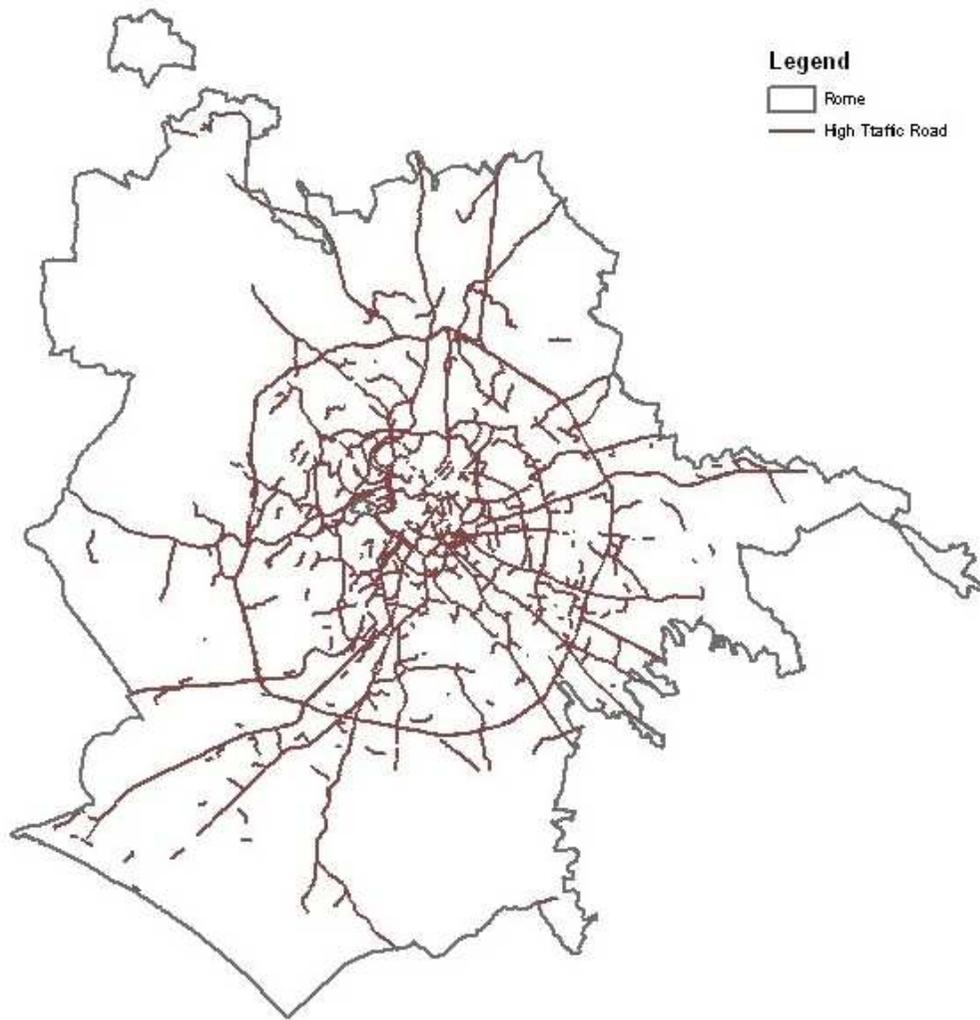
<sup>b</sup> INAIL-Research Center, Monteporzio Catone (RM), Italy

# Numeri

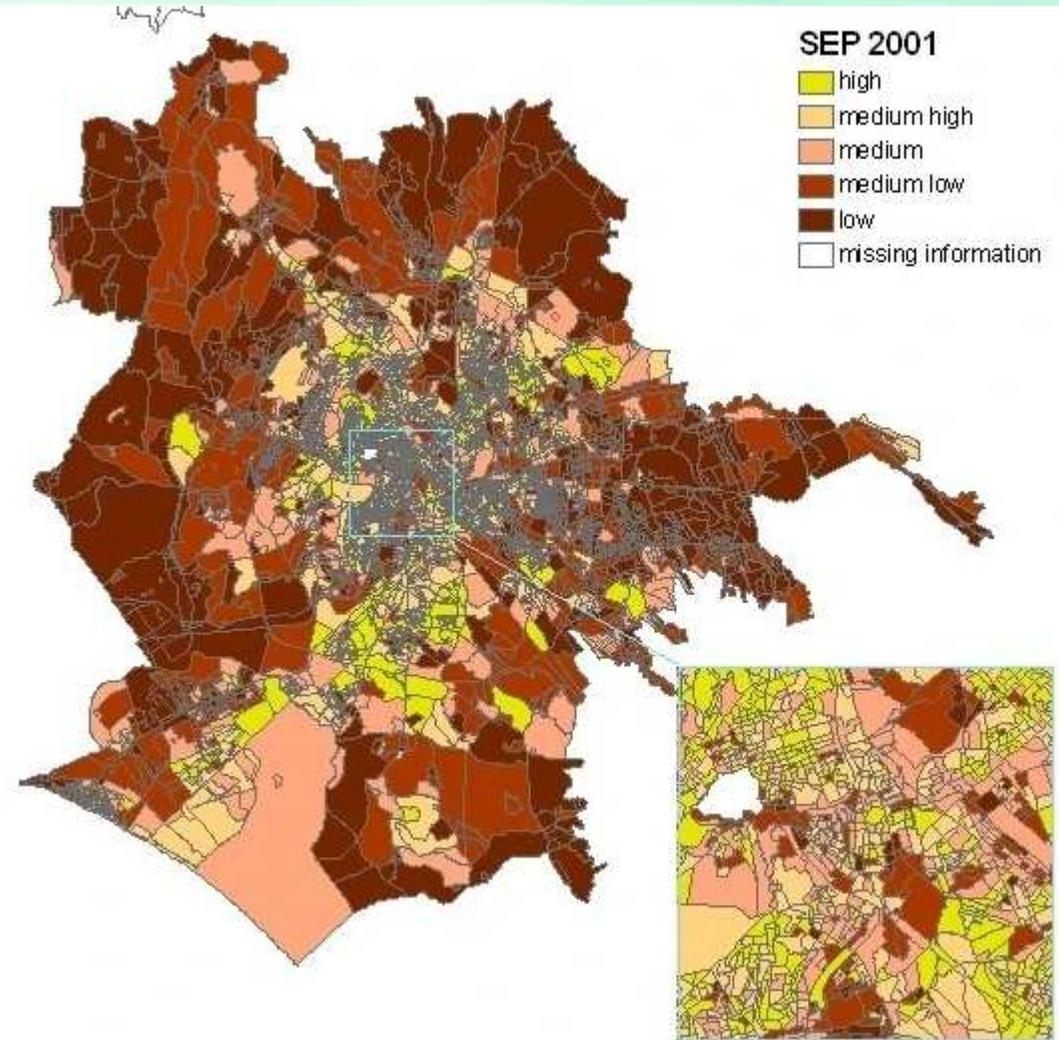
	Age (years)					Total
	0-17	18-34	35-64	65-74	75+	
<b>N</b>	289,539	420,169	821,153	214,332	153,705	1,898,898
(%males)	51.4	49.6	46.9	44.5	37.2	47.1
<b>Area based SEP</b>						
High	18.2	17.4	19.6	19.9	23.8	19.3
Medium-high	18.6	18.9	20.3	20.4	23.0	19.9
Medium	18.6	19.3	20.0	20.5	20.8	19.7
Medium-low	21.2	21.4	20.4	20.5	18.1	20.6
Low	23.5	23.0	19.8	18.7	14.4	20.5
<b>Education*</b>						
University	0.0	13.9	18.5	10.9	11.4	13.2
High school	1.5	59.5	37.5	17.9	16.5	32.9
Secondary school	59.4	26.2	42.4	62.5	59.3	42.2
Primary school	39.1	0.4	1.6	8.7	12.9	6.9
<b>Employment status†</b>						
Employed	0.7	51.4	61.5	5.5	1.1	38.7
Looking for first employment	3.5	10.3	0.9	0.0	0.0	2.8
Unemployed	1.0	9.2	5.1	0.2	0.0	4.3
Student	94.3	22.3	0.2	0.0	0.0	7.5
Housewife	0.1	4.3	18.7	29.6	30.9	14.9
Retired	0.0	0.1	10.8	58.4	57.9	16.0
Military or civil service	0.0	0.6	0.0	0.0	0.0	0.1
Unable to work	0.1	0.5	1.1	1.4	2.4	0.9
Other	0.4	1.2	1.8	4.8	7.8	2.2

Socioeconomic position and health status of people who live near busy roads: the Rome Longitudinal Study (RoLS). Cesaroni et al 2010

# Mappe socioeconomiche e traffico



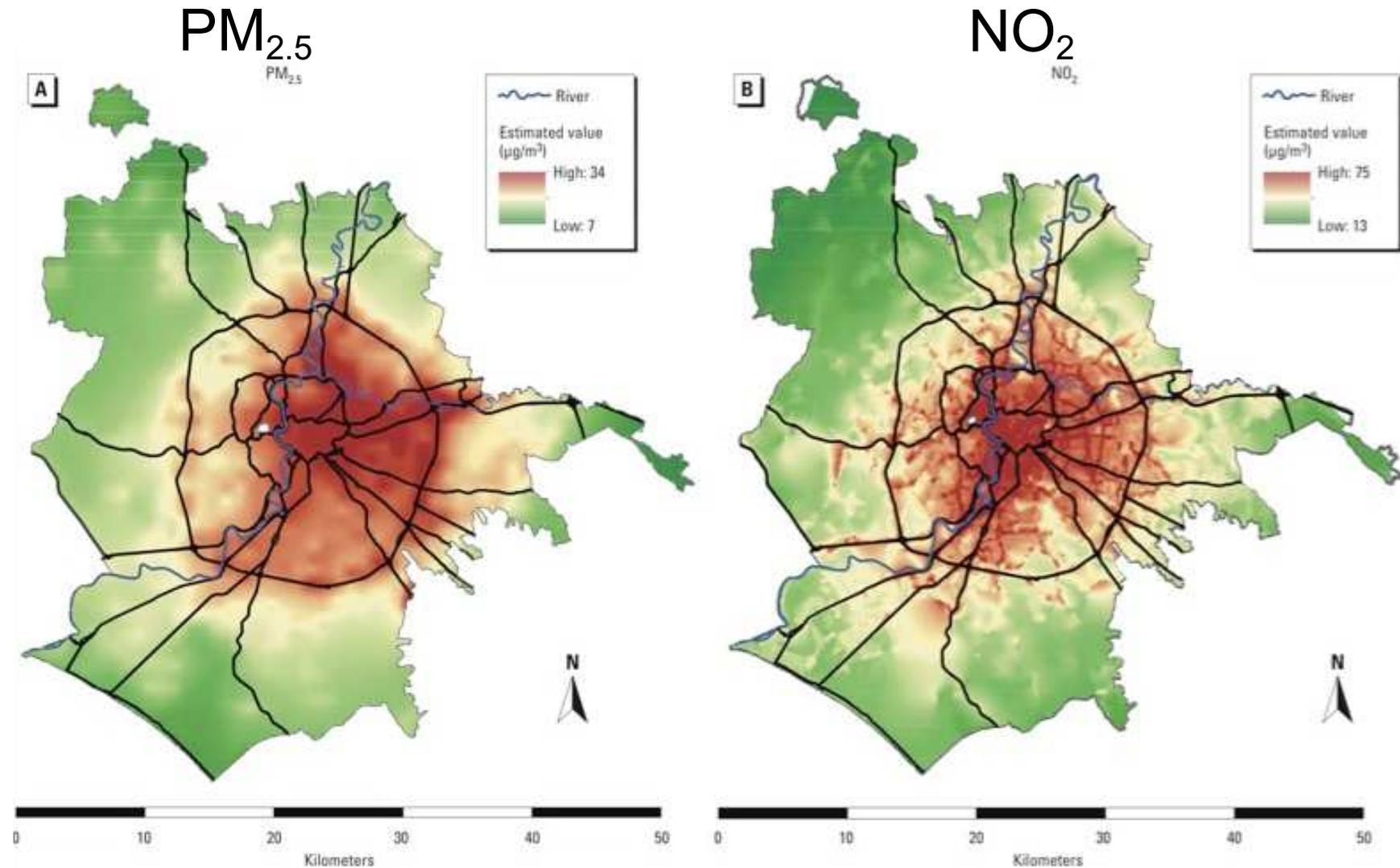
Map of Rome with high traffic roads (HTR, > = 10,000 vehicles/day).



Map of Rome by socioeconomic position (SEP).

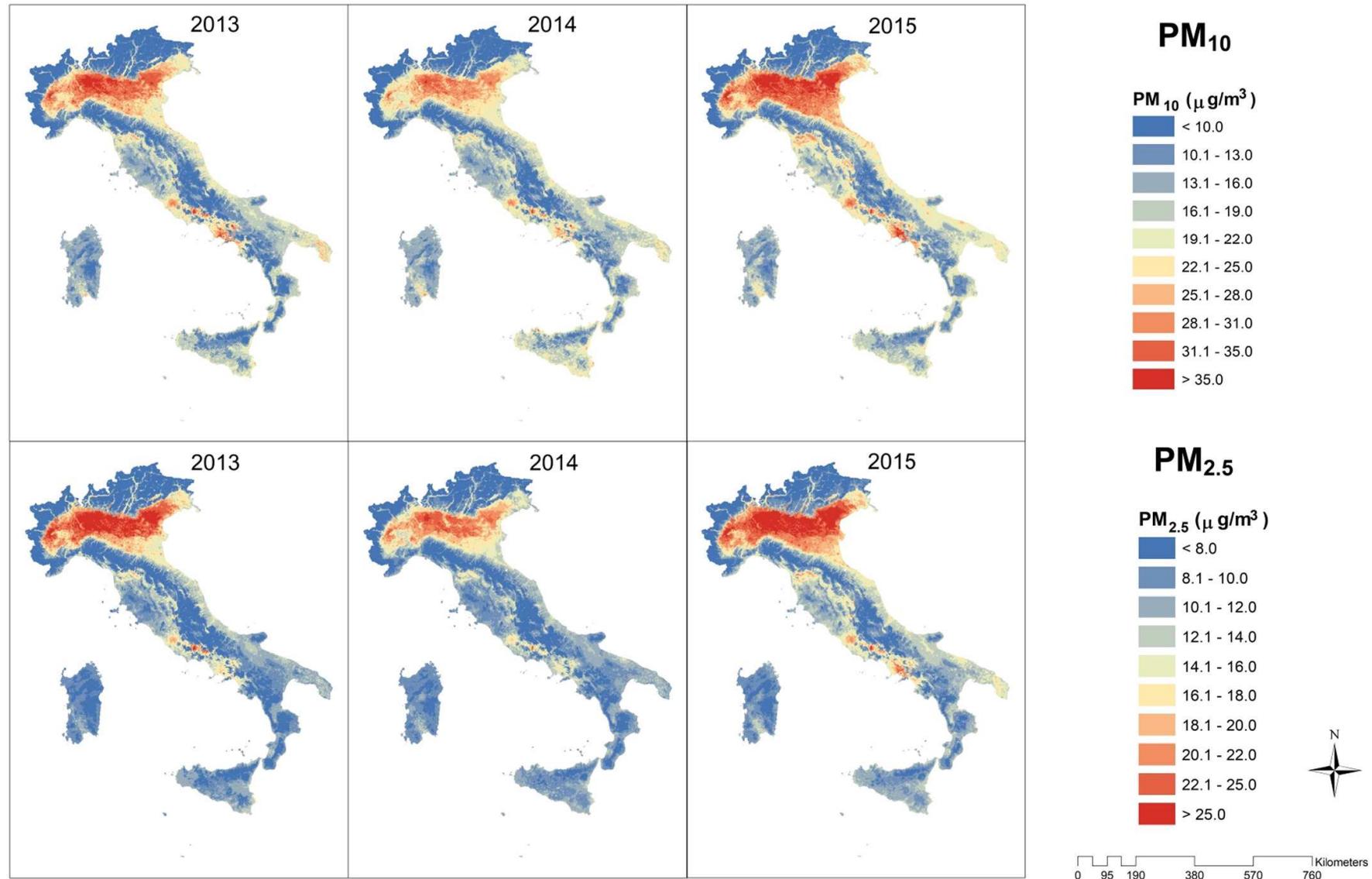
Socioeconomic position and health status of people who live near busy roads: the Rome Longitudinal Study (RoLS). Cesaroni et al 2010

# Mappe di inquinamento



Long-term exposure to urban air pollution and mortality in a cohort of more than a million adults in Rome. Cesaroni et al 2013

# Mappe di inquinamento



Estimation of daily PM<sub>10</sub> and PM<sub>2.5</sub> concentrations in Italy, 2013–2015, using a spatiotemporal land-use random-forest model. Stafoggia et al 2019

# Dati disponibili

## Dati individuali

- Et 
- Sesso
- Istruzione
- Stato civile
- Posizione socio-economica (area index)

## Dati ambientali

- **Esposizione cronica inquinanti**
- Rumore
- Verde urbano

## Dati clinici

- Prescrizioni farmaceutiche
- Esenzioni
- Ricoveri ed accessi PS
- **Decessi**

# Coorte RoLS (studi epidemiologici longitudinali)

- **Fonte dati:**
  - Censimento ISTAT 2001
- **Residenti nella città di Roma:** 20-10-2001 – 31-12-2015
- Flussi amministrativi:
- Dataset dei **decessi**, con dettagli relativi a: giorno di decesso e causa;
- Dataset dei **ricoveri ospedalieri**, con dettagli relativi a: comune di residenza del ricoverato, giorni del ricovero e della dimissione, diagnosi principale del ricovero, tipologia del ricovero (programmato o urgente).
- Dataset degli **accessi al PS**, con dettagli relativi alle cause di accesso, età e sesso del paziente, comune di residenza, ora di arrivo e data di dimissione
- Dataset delle **prescrizioni farmaceutiche territoriali e dirette**
- Dataset delle **esenzioni** del ticket sanitario

