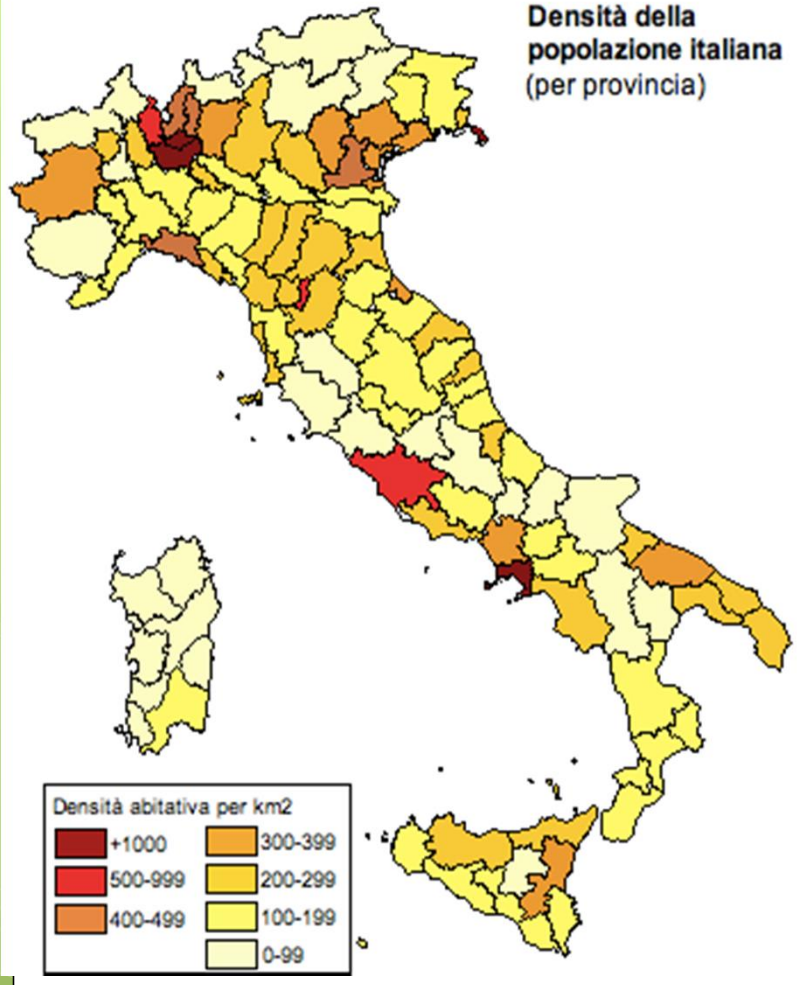
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ERASMUS K2 « PASSPORT TO THE FUTURE »

Maths as Starting Point of Establishing Natural and Demographic Patterns

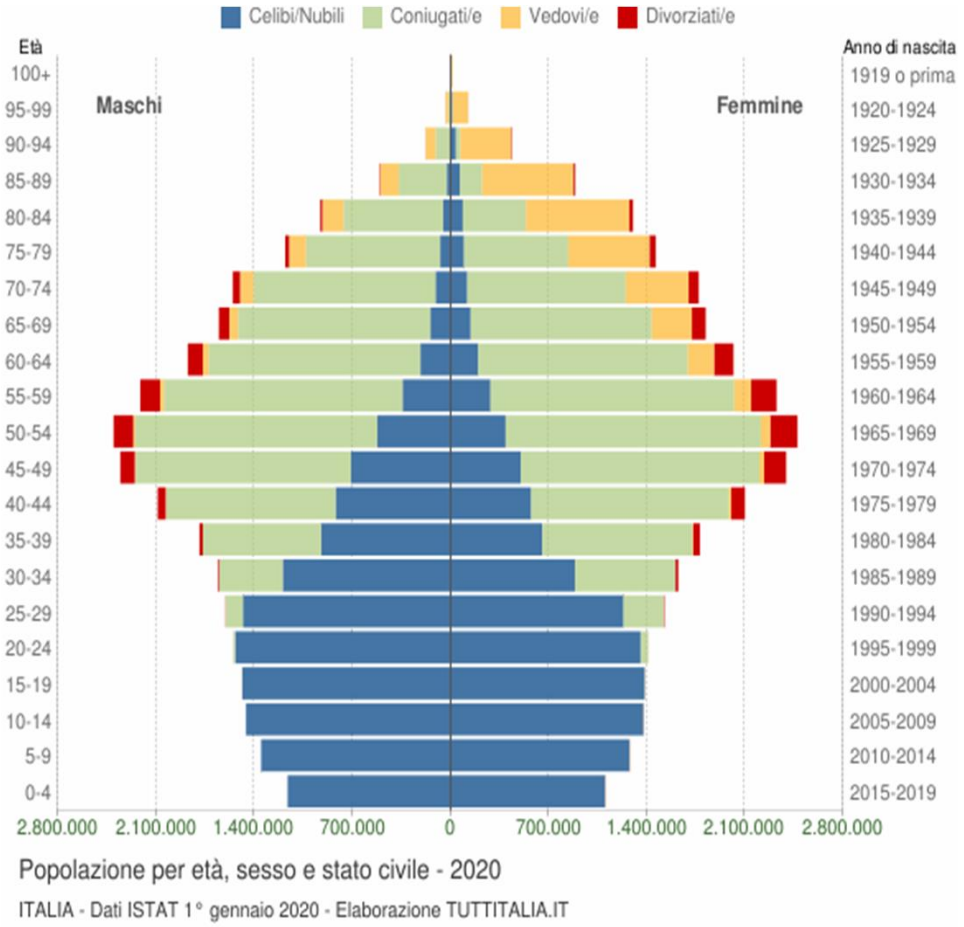
PALAZZOLO ACREIDE 21-26 MARCH 2022

Co-funded by the
Erasmus+ Programme
of the European Union



- Italy is one of the oldest countries in the world and, with Covid, the demographic crisis continues to worsen
- According to ISTAT (the Italian Statistics Institute), the population in Italy was 59.258.000 in 2021,
- There was a visibile reduction of 0.7% (-405,275 individuals) if compared to the data in 2019
- These different coulours show the density per province per Km2
- Of course the highly populated North and Centre are the most developed areas

the Age Pyramid
2002 -2021



- The Pyramid shows the distribution of the population by age, sex and marital status (single, married, divorced and widowed).
- The data table and graph show the aging of the population and the high percentage of single people
- Two factors determine the aging of the population:

a) the increase in life expectancy(83.7 years)

b) the low fertility rate (1.27 births per woman against 1.53 of the EU average)

A Country of Records

L'Italia è una dei Paesi più vecchi al mondo e, con il Covid, **la crisi demografica** continua a peggiorare.

- Italy is the European country with the highest incidence of over 65s on the total population: 23.2%, against 20.6% of the EU average (data referring to 2020).
- In addition, the elderly dependency ratio, ie the ratio between the population aged 65 or over and that of working age (between 15 and 64 years), is 36.4% in Italy. Also in this case it is a European record: the EU average stands at 32%.



Over 65 people



- All this has dramatic consequences on the country's prospects.
- According to Ambrosetti projections based on Eurostat data, people of working age will decrease by 1.9 million by 2030 (-5%) and by 7.6 million by 2050 (-19%), reaching approximately 31.2 million, with negative consequences on the production capacity of the country
- This data, apparently obscure, hides an alarming meaning: "In Italy for each elderly person there are only 2.7 workers who pay contributions compared to a European average of 3.1".

No Future



- A problem common to all countries is the decline in births and the increase in life expectancy
- Italy records an extraordinary decrease in the frequency of births below the symbolic threshold of one thousand units per day
- 2021 marked a negative record in terms of birth rates: less than 400,000 new births

Aging and Disease

- The increase in longevity is a tangible achievement of our times. On the other hand, it represents one of the greatest challenges for the immediate future.
- The global burden of diseases is related to cardiovascular and cerebrovascular disease and neuropsychiatric disorders, including depression, Alzheimer's disease and other forms of dementia
- Italy has planned an appropriate, systematic and urgent health policy characterized by interventions that involve research, care and well-being of the elderly

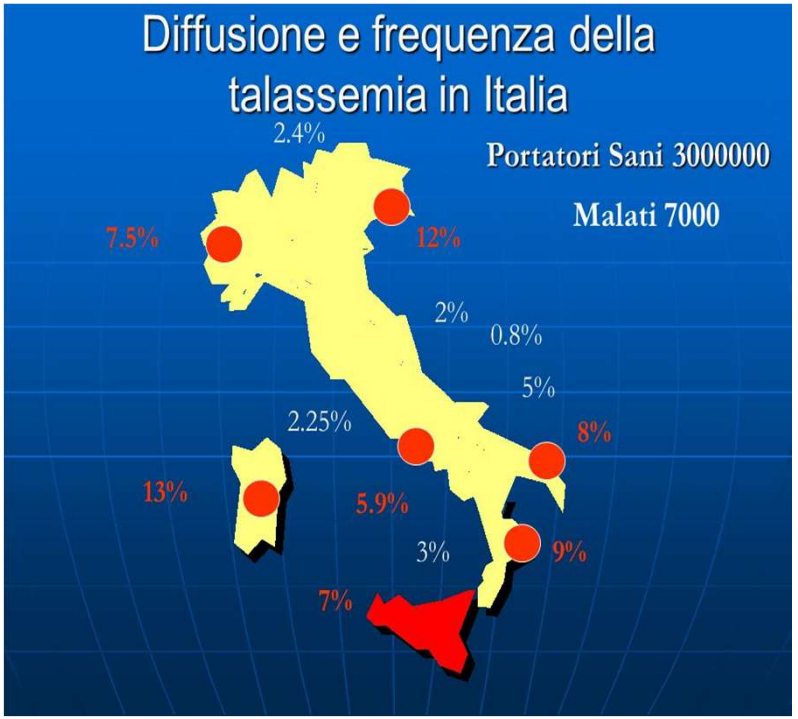
Italy cares the elderly and handicapped people

- Our social protection system assigns a central role to local authorities (Law n.328 of 2000), in particular to the Municipalities
- they provide services aimed at guaranteeing care and support activities for social integration.
- Law 104/1992 states the principles for assistance, social integration and the rights of handicapped people
- The benefits provided by this Law 104 are: • job benefits; • benefits for parents; • tax benefits



An Endemic Disease: Thalassemia

- Thalassemia is a genetic disease due to an abnormality in the structure of hemoglobin. The protein responsible for transporting oxygen throughout the body
- Thalassemia is widespread in those regions of the world with a previous malarial endemic situation, such as the Mediterranean area
- In Italy, it is estimated that there are about 7,000 thalassemia patients
- The highest concentration is in some regions of the Center-South
- The most affected region is Sicily, with 2,500 patients, followed by Sardinia with 1,500;
- The remaining 3,000 patients are fairly evenly distributed throughout the Peninsula



A Modern Age Disease: Cancer

- Cancer registration covers more than half of the Italian population
- 44 areas of the country are polluted beyond all legal limits. In the most contaminated areas, cancers have increased by up to 90% in just ten years.
- The positive recent data is that In Italy in 2021 cancer was the cause of death for about 100,200 men and 81,100 women.
- The data shows that mortality is decreasing and survival is improving for many cancers in Italy, with data generally better than those of the European average
- Over the past six years they have decreased by 9.7 percent in men and 8 percent in women.



Types of Cancer

- The most common types are breast cancer, stomach cancer , colorectal cancer, bladder cancer and smoking-related cancers such as lung cancer ,
- Overweight and obesity remain important problems. Other risk factors are cigarette smoking and alcohol consumption.
- The Covid-19 pandemic has left a profound imprint on oncology : a reduction in oncological screening and cancer surgeries



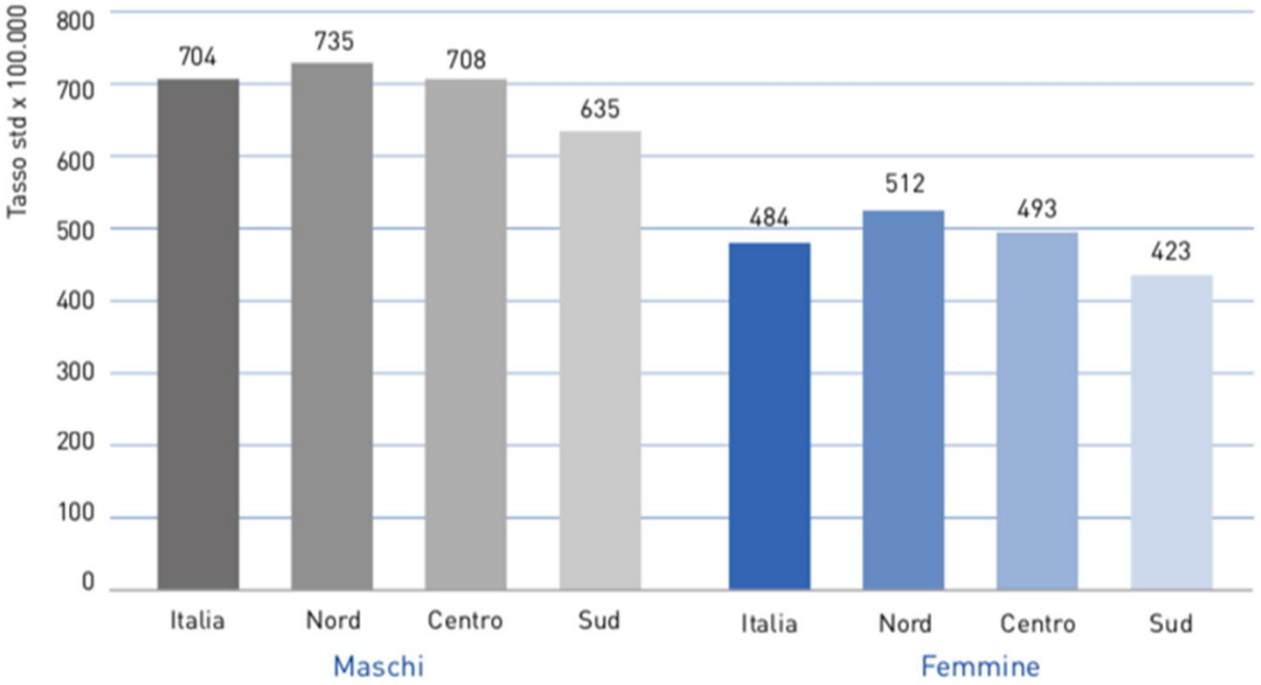


FIGURA 8. AIRTUM 2008-2016. Tutti i tumori, esclusi i tumori della cute non melanomi. Tassi d'incidenza standardizzati sulla nuova popolazione europea per area geografica e sesso

Nota: è stata utilizzata la nuova popolazione standard europea (Eurostat 2013).

Solutions


Medical care
STOP CANCER
Regular screening
Prevention
Healthy lifestyle

THANK YOU
FOR YOUR ATTENTION

