



Demography and migration

Lesson 4





- Economic drivers
- And demographic drivers
- of migration





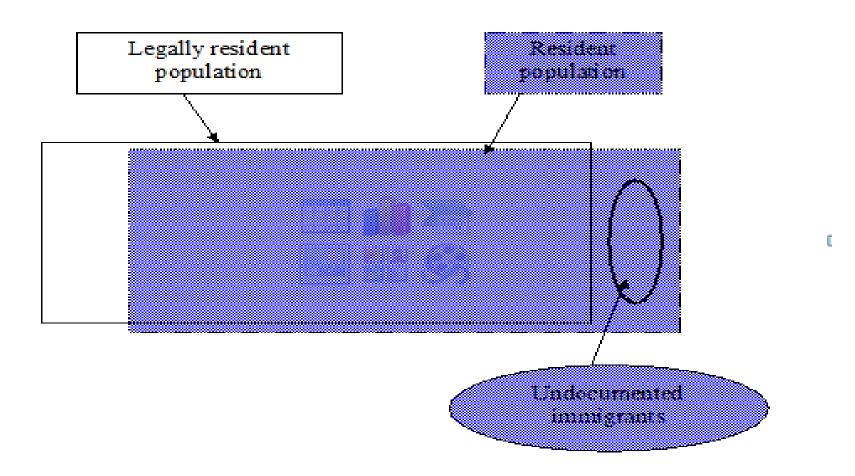


The effect on the population





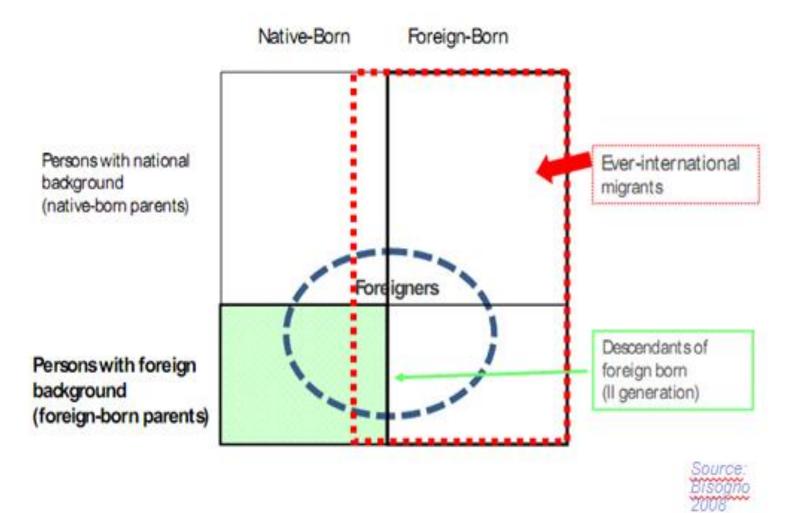
















What do you want to measure?

Which question are you trying to answer?







	Births 2001**	Deaths 2001**	NATURAL CHANGE	Immigrants 2001**	Emigrants 2001**	NET MIGRATION
ITALIA	544,550	544,094	456	1,582,707	1,417,184	165,523

$$P_{31.12.2001} = P_{1.1.2001} + NC_{2001} + NM_{2001}$$

$$P_{31.12.2001} = 57.844.017 + 456 + 165.523$$

$$P_{31.12.2001} = 58.009.996$$



- But net migration is not appropriate if you want to understand the outflows from a country of origin,
- The migration pressure

Gross migration





Migration rates for total populations are usually defined as the number of events divided by the mid-period population

Rate of inward migration =
$$\frac{\text{arrivals}}{\text{mid-period population}} \times 1000$$

Rate of outward migration =
$$\frac{\text{departures}}{\text{mid-period population}} \times 1000$$

Rate of net migration =
$$\frac{\text{arrivals} - \text{departures}}{\text{mid-period population}} \times 1000$$

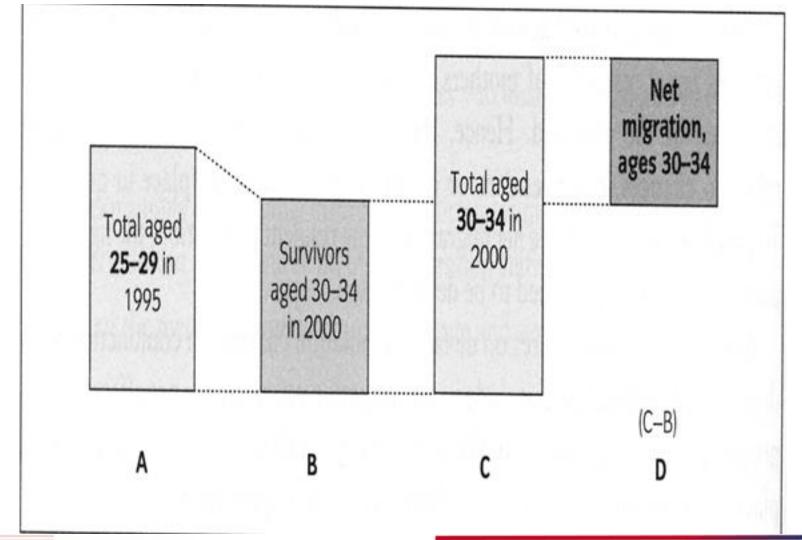
Rate of gross migration =
$$\frac{\text{arrivals} + \text{departures}}{\text{mid-period population}} \times 1000$$

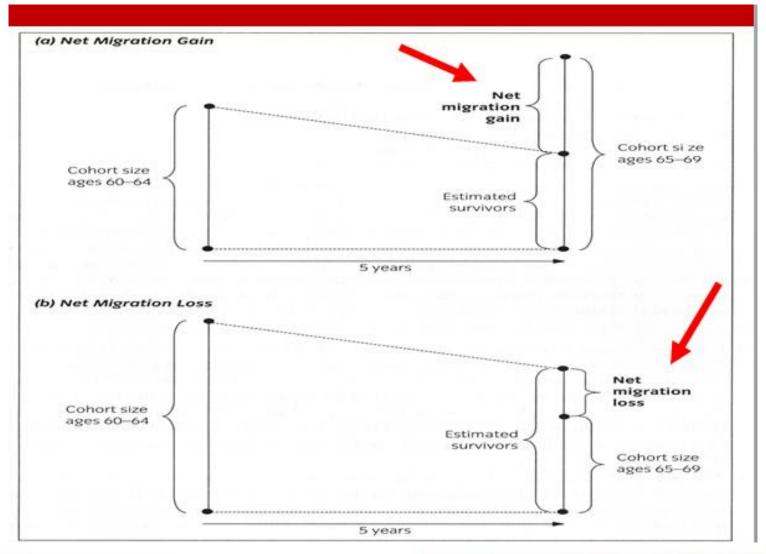




An example of estimating net migration (from vital statistics)

	Births 1995–2000		Natural Increase 1995–2000	Total Population Change	Net Migration 1995–2000
A	B north annua	Cap lo sea	(B – C) D	1995–2000 E	(E – D) F
North	252 344	126941	125 403	265 621	140218
South	9440	8317	1123	26211	25088
East	37750	19510	18240	26820	8580
West	23 059	8682	14377	27520	13 143
Total	322 593	163450	159143	346172	187029









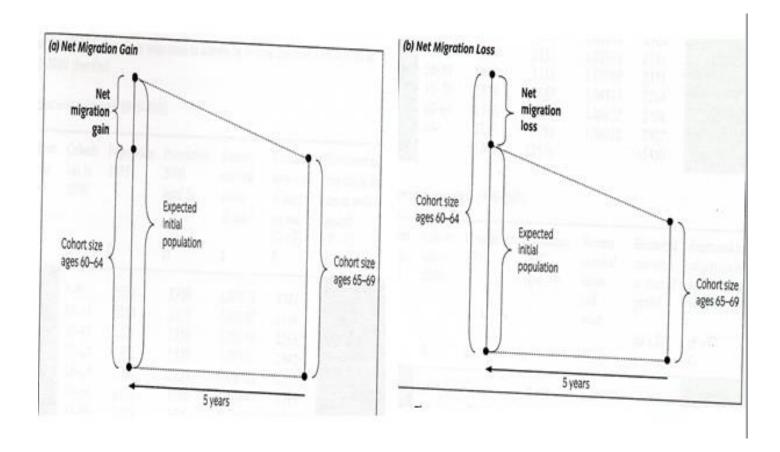
Net
$$M'_{x+n} = P^n_{x+n} - S \times P^0_x$$

vhere

The numbers in a cohort at the start are multiplied by their survival ratio, then the resulting estimate of survivors is subtracted from the cohort's numbers at the end of the period

The outcome is the net migration estimate



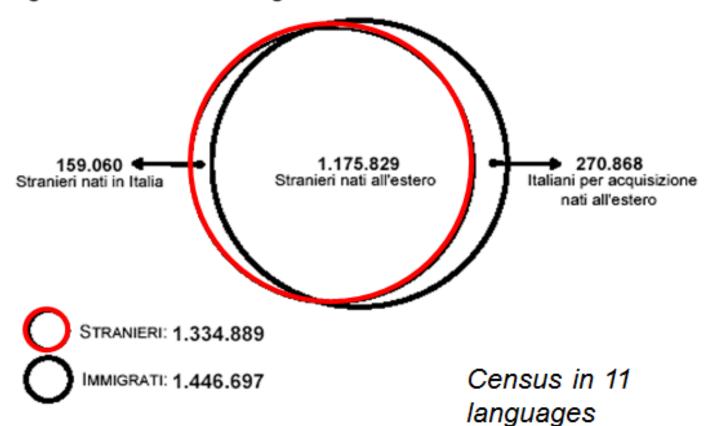


• Remember the limitation of the data that you use.





Figura 1 – Stranieri e immigrati residenti. Censimento 2001









Replacement migration Is a solution for declining population?

- Replacement migration refers to the international migration
- that would be needed to offset declines in the size of a population,
- declines in the population of working age
- as well as to offset the overall ageing of a population





Europe's demographic situation

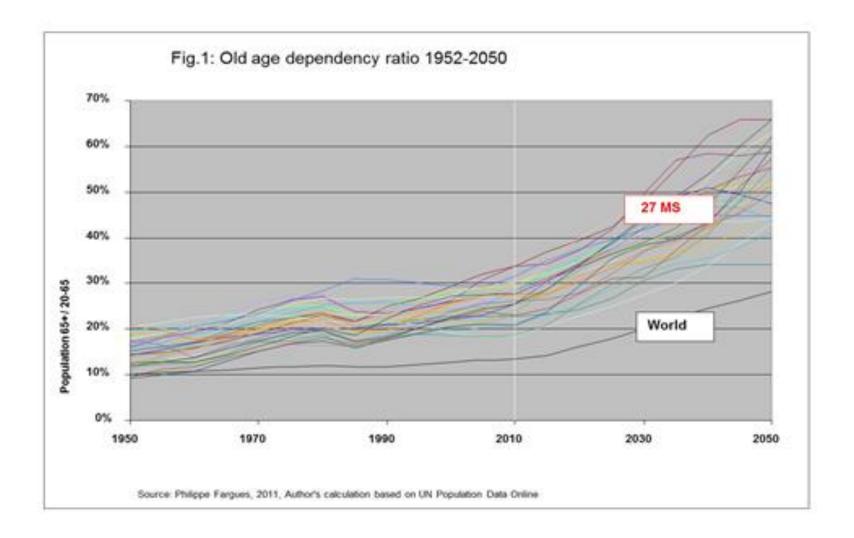
- □ Demographic projections show that Europe's population is diminishing in size as well as becoming older.
 - While on average around 2.1 children per woman of childbearing age are required to replace the population, the EU average is 1.53.
 - Life expectancy is increasing.
 - The proportion of those aged 65 and over is projected to rise to 22% by 2025.
 - Within this, the relative number of people of 80 and older is rising faster still.
 - This means that a growing number of people above retirement age will need to be supported by those in employment.
 - On present trends, the EU working age population will fall by approximately 40 million people from 2000 until 2050 and the old age dependency ratio will double from 24% to 49%.



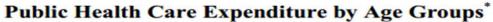


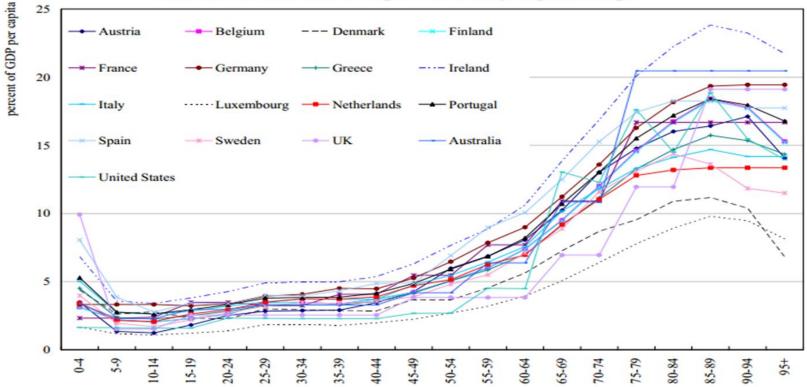
Europe's demographic situation

- Regional differences are significant for all the measures examined
 - whereas a number of regions including the south of France and Greece will not face population decline for decades, population is already declining in some regions of Spain, of Italy, of Germany and of the Nordic countries,
 - With regard to the old-age dependency ratio the number aged 65 and over relative to those of working-age (15 to 64) - the most marked increases are expected to take place in Italy, Sweden, Finland and Germany and the smallest in Ireland, Portugal and Luxembourg.









^{*} Expenditure per capita in each age group divided GDP per capita. Source: ENPRI-AGIR, national authorities and Secretariat calculations.





Migration

- Migration is the most volatile of the components determining population size and structure
 - While fertility and mortality rates change gradually, the number of people entering or leaving a country can vary significantly from one year to the next.
 - The past 10 years have witnessed great fluctuations in European migration levels, as well as significant regional variations.
 - Future migration trends largely turn on <u>policy decisions</u> about migration needs in Europe. However, the 'supply' side in the form of continuing migration pressure from outside the EU is also a much-discussed aspect.
 - Researchers have added a demographic perspective to this theme by pointing out that the 'stagnating entity' Europe is 'surrounded by populations with run-away growth'.
 - Projections suggest that while in the post-world war II era, the population of Spain was three times larger than Morocco's; in about 2050 Morocco's population might be 50 per cent larger than Spain's. A similar picture emerges when comparing France and Algeria or Germany and Turkey.





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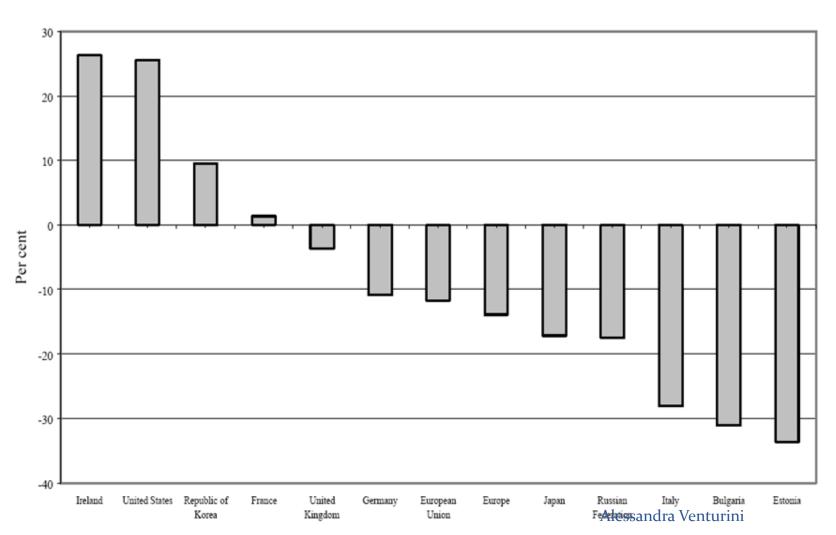
Population Division
Department of Economic and Social Affairs
United Nations Secretariat

Replacement Migration: Is it A Solution to Declining and Ageing Populations?





Figure I.1. Per cent change in total population for selected countries and regions, 2000-2050



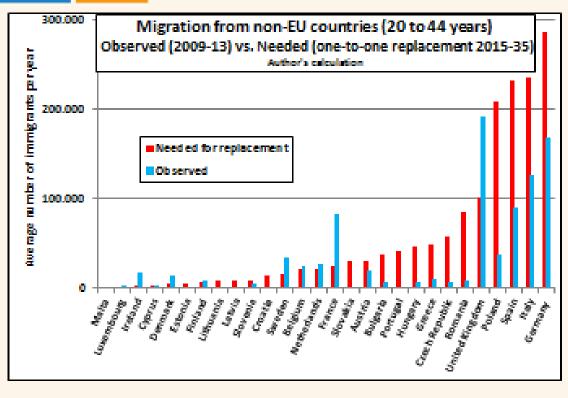






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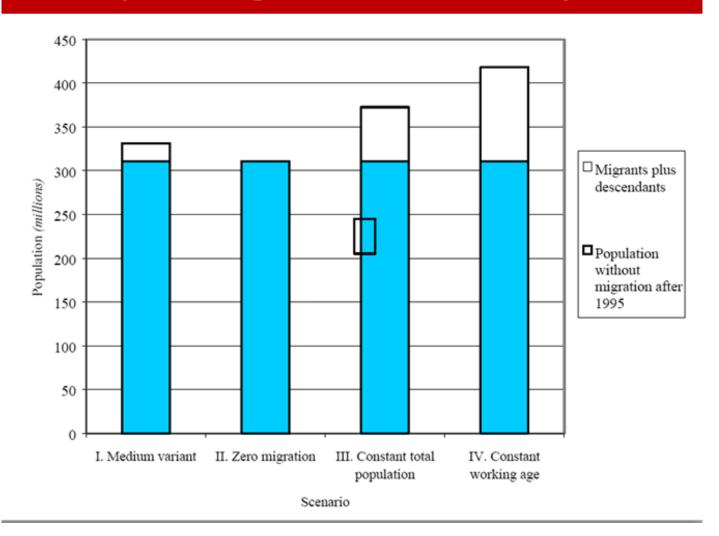
POPULATION OF THE MEMBER COUNTRIES OF THE EUROPEAN UNION, 1995 AND 2050, SCENARIO I

Member countries	Populatio	n (thousands)	Projected change 1995-2050	
as of 2000	1995	2050 (Scenario I)	(thousands)	(per cent)
Austria	8 001	7 094	- 907	- 11.3
Belgium	10 088	8 918	- 1 170	- 11.6
Denmark	5 225	4 793	- 567	- 10.9
Finland	5 108	4 898	- 210	- 4.1
France	58 020	59 883	1 863	+3.2
Germany	81 661	73 303	- 8 358	- 10.2
Greece	10 489	8 233	- 2 256	-21.5
reland	3 609	4 710	1 101	+30.5
taly	57 338	41 197	- 16 141	- 28.2
uxembourg	407	430	23	(+5.7)
Netherlands	15 459	14 156	- 1 303	- 8.4
Portugal	9 856	8 137	- 1 719	- 17.4
Spain	39 568	30 226	9 342	-23.6
Sweden	8 800	8 661	- 139	- 1.6
Jnited Kingdom	58 308	56 667	- 1 641	- 2.8
European Union	371 937	331 307	- 40 630	- 10.9





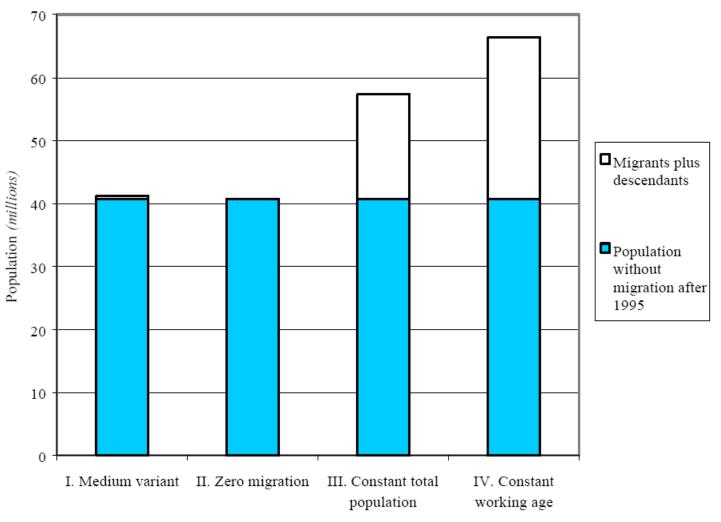
Population of the <u>European Union (15) in 2050</u>, indicating those who are post-1995 migrants and their descendants, by scenario







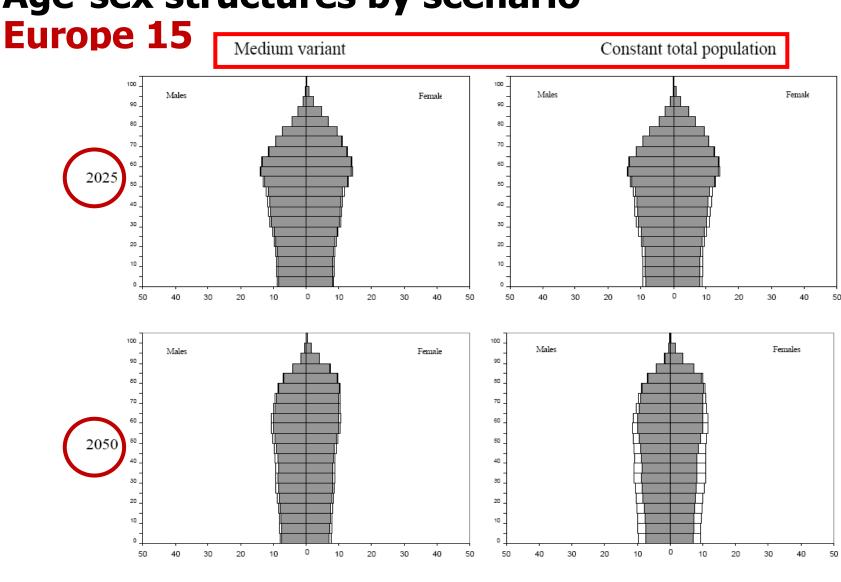
Population of <u>Italy</u> in 2050, indicating those who are post-1995 migrants and their descendants, by scenario



Scenario 28



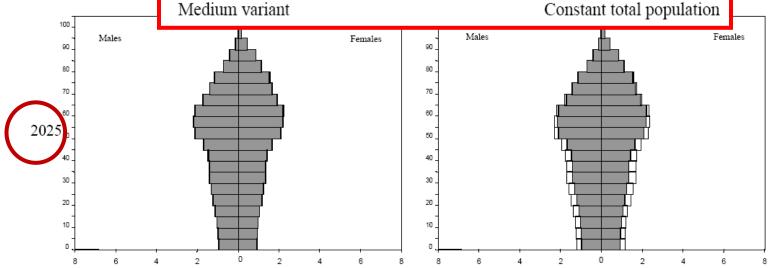
Age-sex structures by scenario

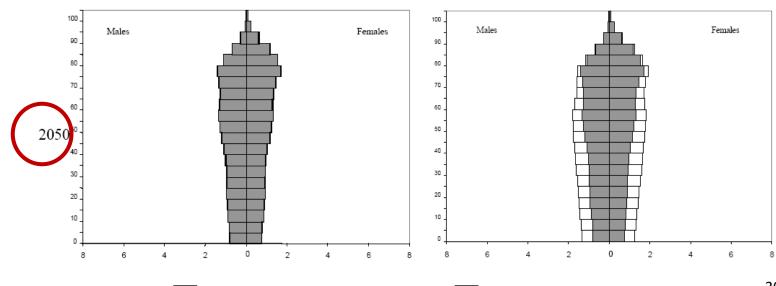


Co-funded by the Erasmus+ Programme of the European Union

Age-sex structures by scenario



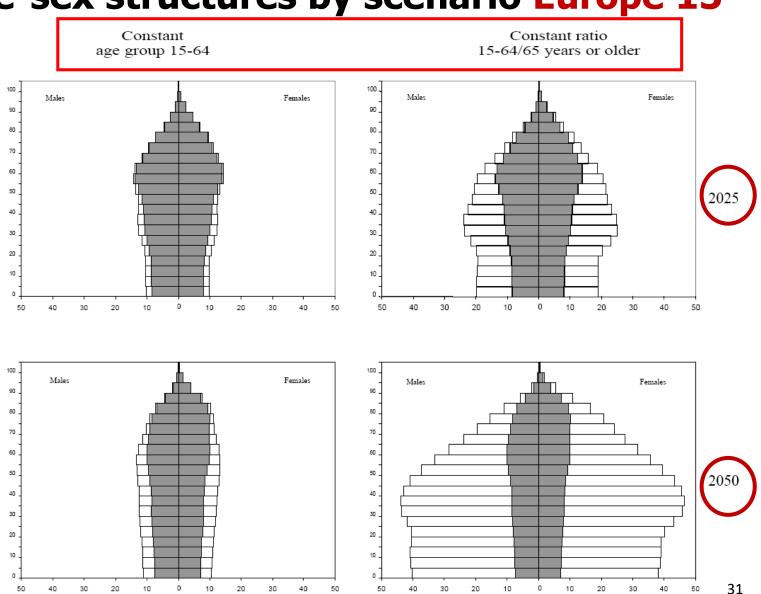








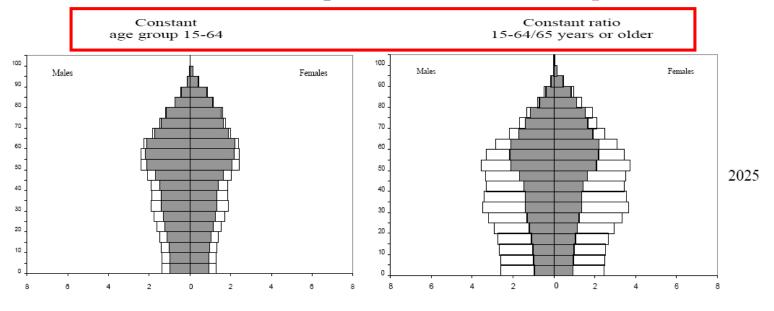
Age-sex structures by scenario Europe 15

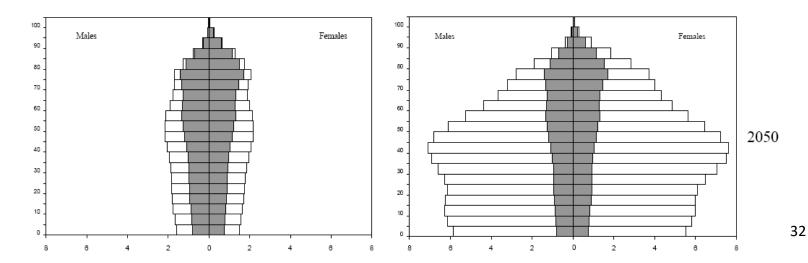






Age-sex structures by scenario Italy





UN Report

- This comprehensive analysis, the first to be made on a common methodology on a fully international basis has attracted unusual attention and provoked much comment in the media.
- Because of this systematic approach, and because of the prestige attaching to the UN Population Division, the report has been widely read and cited.
- Its statistics will be a definitive benchmark for years to come.
- A) Critics of too much 'optimism' on immigration as solution
- B) Critics of having underestimated other positive consequences of immigration
- C) Migration replacement is already here!







Against

- ☐ the almost universal *impression* conveyed to the public is that the UN has stated the following:
 - ➤ (a) that population, workforce numbers and support ratios
 must be kept at their present levels and therefore
 - (b) that the projected levels of immigration must be encouraged by the countries concerned.

✓ The idea is that "This interpretation of the report has provoked comprehensive public misinformation"





Demographers critique

- □Alternatives (pensions, retirement and workforce reform, productivity, more substantial changes in fertility) were noted but not evaluated
- The political, social and economic costs of largescale immigration received no mention.
- The Report's concentration on the demographic abstraction of the 'potential support ratio' without considering equally or more important non demographic components of real dependency levels in real societies, has been criticised as 'demographism' (Tarmann 2000).



(A) Coleman's conclusions on UK example

- The answers to the two questions posed in the UN Report can immigration solve problems of :
 - population decline
 - population ageing

They are respectively:

- "yes, if you really think you want to"
- 2. "no, except at rates of immigration so high that they would generate economically and environmentally unsustainable population growth rates and permanently and radically change the cultural and ethnic composition of the host population: 'replacement migration', indeed"



[Incidentally about 1) Reconstructions of the population effects of past immigration]

- Reconstruction of French population history over the last century (to 1986)
 - showed that the direct and indirect effects of immigration over that time had added 10.2 million people to the French population, of whom 3.9 million were immigrants born outside France
 - Without it, France would have lacked one in five of its births and its 1986 population would have been 45.1 million instead of 55.3
 - In particular, immigration accounted for about 40 % of population increase since the Second World War.
- Substantial growth in the UK population between 1951 and 1995
 - as a result of the direct and indirect effects of migration by 2.89 million according to the 'modified fertility' scenario
 - Migration accounted for 30 percent of total population growth over the period





At EU level consensus on:

- Well-managed migration inflows could provide a positive contribution to employment and economic growth if we manage to successfully promote the integration of immigrants in our societies.
- ✓ However, even doubling present levels of immigration flows could not offset the implications of ageing in the labour market and pensions.
- ✓ Pension systems are not very sensitive to immigration increases. Simulations confirm that even doubling or tripling the levels of annual immigration flows provided by the baseline demographic scenario for the next 40 years could not compensate for the growth of the economic dependency ratio.
- ✓ We will still need to focus our efforts on employment policies and pensions reforms, if we are to achieve sustainable labour markets and pensions systems.
- ✓ "immigration can contribute to filling certain specific gaps on the European labour market, but it can in no way stop or reverse the process of significant population ageing in Europe" 2002 Social Situation report







- ☐ The hesitancy of policy makers with regard to immigration as an answer to demographic challenges is connected to three main aspects:
- the composition of the immigrant flows involved
- To maximise the positive effects of immigration for pension and health care systems, the desired immigrants would be as young as possible
- the social sustainability of large scale immigration
- the durability of immigration's effect on ageing
- On this view, replacement migration is not a long-term solution to population ageing, because migrants also age.
- While increased immigration would certainly have an immediate impact on the workingage population, the long-term effects are less certain







Large consensus

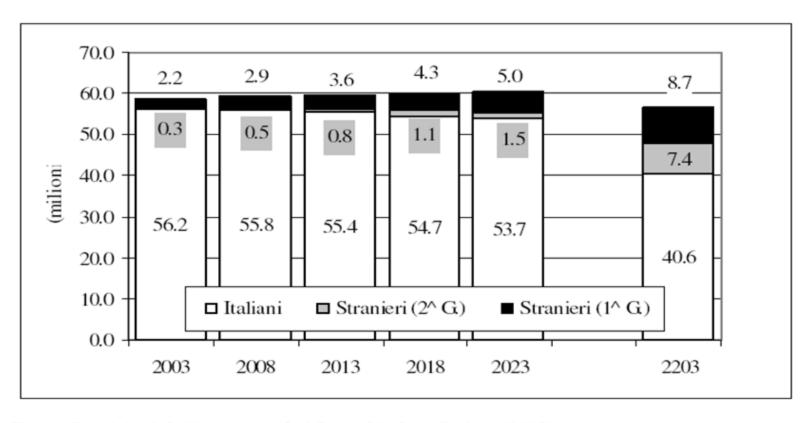
- ☐ Forecasting international migration is a very difficult task, due to the high level of uncertainty associated with this phenomenon.
- The results of the forecasts are in many cases uncertain, as migration is highly sensitive to two unpredictable factors:
- migration policies
- political developments,
- Usually: quantification of the knowledge-based scenarios, applying a methodology widely used in demographic forecasting, in order to accommodate the possible impact of economic factors and migration policies.
- not consideration the consequences of possible future political disruptions







||Forecast of Letizia Mencarini



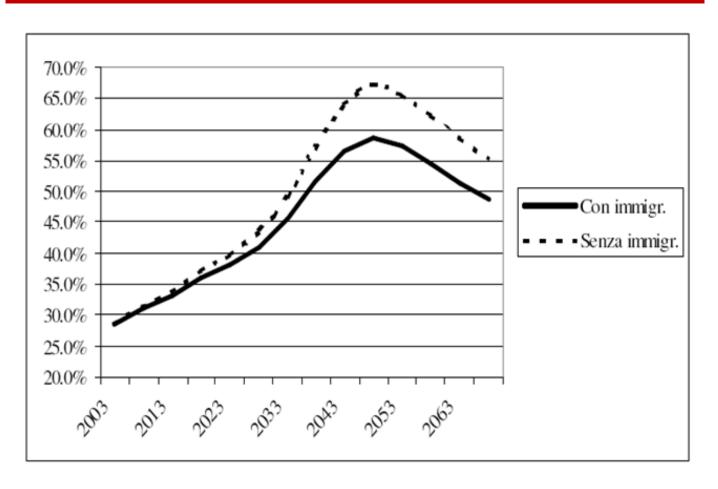
Fonte: Previsioni dell'autore su dati Istat (2003) e Caritas (2003).







Italian population 65+ /20-64 years old in the next 70 years



Fonte: Previsioni dell'autore su dati Istat (2003) e Caritas (2003).