

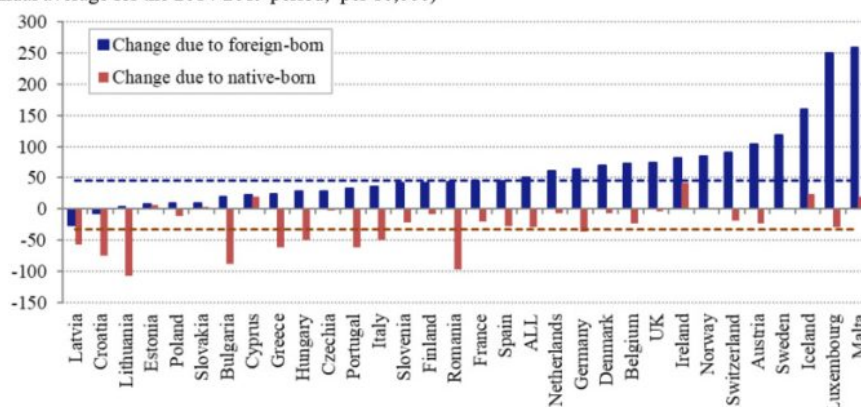
# The contribution of the foreign-born population to demographic change in Europe



*Cosa guida il cambiamento demografico in Europa? Christos Bagavos mostra che tra il 2014 e il 2019 questo cambiamento è dovuto più alle popolazioni nate all'estero che a quelle native, sia per un effetto diretto (migrazione netta) sia indiretto, attraverso i differenziali di fecondità e mortalità legati alle differenze nella struttura per età delle due popolazioni.*

Between 2014 and 2019, in most of the 31 European countries (EU-27 plus the United Kingdom, Norway, Switzerland and Iceland) considered in a recent study, most if not all of the demographic increase was due to migrants, i.e. foreign-born populations (Bagavos 2022). Latvia and Croatia are an exception: in the other cases, the migrant contribution was positive and varied between 3 (Lithuania) and 260 per 10,000 (Malta; Figure 1).

**Figure 1.** The contribution of foreign- and native-born populations to overall population change in Europe (annual average for the 2014-2019 period,<sup>a</sup> per 10,000)



<sup>a</sup> 2018–2019 for Germany and Switzerland, 2017–2019 for Ireland, 2014–2015 for Finland. Horizontal lines = EU-27.

Source: Bagavos (2022)

For the 31 European countries as a whole, the contribution of the foreign-born population to overall population change (50 per 10,000) resulted mainly from net migration (38 per 10,000), but the excess of births over deaths also played a non-trivial role (12 per 10,000).

This contrasts with the limited and often negative effect of the native-born population, including second-generation migrants, on overall population change (Figure 1). Without the contribution of migrants, populations would have increased in only four countries: Cyprus, Malta, Iceland, and Ireland. In all other countries, negative net migration of native-born individuals combined with an excess of deaths over births resulted in a net loss. For the 31 countries as a whole, the contribution of the native-born population to overall population change was -29 per 10,000, due to negative net migration (-15 per 10,000) and negative natural change (-14 per 10,000).

On the whole, over the 2014-2019 period, migrants:

- attenuated population decline in Eastern and Southern European countries;
- accelerated population growth in a very limited number of countries; and, more significantly,
- turned expected population decline into population growth in Western European and Scandinavian countries.

# Breaking down the differences...

Net migration has become the main component of population growth in Europe (European Commission 2020). However, observers usually forget that its overall level results from a combination of:

- positive net migration of foreign-born individuals and
- negative net migration of native-born individuals.

In addition, there is a great diversity in natural change attributable to foreign- and native-born populations, although this relates more to structural than to behavioural differences. In other words, and contrary to what causal observation may lead to believe, it owes more to differences in the age structure of the two populations (migrants and natives) than to differentials in fertility and mortality.

For instance, and with reference to Table 1, for the 31 countries as a whole, the crude birth rate of migrants exceeded that of natives by 89 (per 10,000 migrants; column 3), whereas the corresponding figure for the crude death rate was -29 (column 6), which means that the difference in the level of natural change due to each population was of the order of 118 (column 9).

**Table 1:** Demographic factors behind the differences in crude rates of natural change attributable to foreign- and native-born populations in selected European countries (annual average for the 2014-2019 period,<sup>a</sup> per 10,000 population, native-born population considered as a reference population)

	Differences attributable to diversities in:								
	Crude birth rates			Crude death rates			Natural change rates		
	Fertility (1)	Structure <sup>b</sup> (2)	Total <sup>c</sup> (3)=(1+2+i)	Mortality (4)	Structure <sup>d</sup> (5)	Total <sup>e</sup> (6)=(4+5+i)	Fer+Mor (7)=(1-4)	Structure (8)=(2-5)	Total (9)=(3-6)
Belgium	41	58	117	-3	-34	-38	44	92	155
Denmark	-2	110	98	-9	-55	-59	7	165	157
Germany	47	37	79	-8	4	-4	55	33	83
France	80	26	118	1	5	5	79	22	113
Netherlands	4	70	69	-2	-32	-34	6	103	103
Austria	31	57	96	2	-35	-35	29	91	131
Sweden	26	64	90	-4	-32	-35	30	96	125
United Kingdom	19	95	129	0	-34	-35	19	129	164
Norway	19	95	121	-14	-57	-63	33	152	183
Switzerland	27	58	84	-9	-25	-32	36	83	116
10_Countries	35	55	99	-3	-12	-16	39	67	115
31_Countries	31	50	89	-8	-21	-29	39	71	118
EU-28	31	49	89	-8	-20	-28	39	70	117
EU-27	33	42	82	-9	-18	-26	42	60	109

<sup>a</sup>2018-2019 for Germany and Switzerland; <sup>b</sup>Age structure of women of reproductive age and their share in the total population; <sup>c</sup>i=interaction; <sup>d</sup>Population age structure.  
**Source:** Bagavos (2022).

As said, and with the notable exception of France and Germany, the difference in natural change attributable to each population group depends more on structural diversities (age structure; column 8) than on fertility or mortality (column 7).

More specifically, this structural effect is stronger for birth rates (column 2) than for death rates (column 5). In short, in explaining the differences between the two subgroups (natives and migrants), the age structure of women of reproductive age and the share of women of reproductive age in the total population (affecting births) weigh more than the overall age structure (affecting deaths).

## What awaits us

The period considered in this article, 2014–2019, before the COVID–19 pandemic, was characterised by strong migration flows resulting from the refugee crisis, and from intra-European migration flows, a consequence of the economic crisis that began in 2008. In the near future, however, these external causes may disappear, or at least become less important, while ageing will proceed, also among the foreign-born. This would suggest a diminished role of migrants in the European demographic change over the next few years.

However, this is far from certain. Native fertility will likely remain very low, and natural change for natives is expected to become more strongly negative. Conversely, immigration from abroad, especially from Africa, will presumably continue for quite a few years: these immigrants, and their descendants, will most likely be the only barrier to future population decline in Europe.

## References

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