Population estimates and migration in Israel: challenges in the integration of multiple data sources and various types of migrants



Alaa Atrash Ektelat*, Nir Fogel** and Ahmad Hleihel*

UNECE meeting of the Group of Experts on Migration Statistics Geneva, 2 6-28 October, 2022

- * Central Bureau Of Statistics, Israel
- ** Population and Immigration Authority, Israel

المركم المرارا!

Migration data in Israel - Overview



National Estimates:

- Legal foreign workers
- Illegal foreign workers
 - Asylum seekers and Infiltrators

Cooperation with PIBA (MU)

- Migration Policy

- The absence of foreigners

1948 1995 2008 2022

Excluding Foreigners

Integrated foreigners data in the census and in the population estimates

Memorandum of Understanding with the Population and Immigration Authority







- The Memorandum of Understanding was signed in December 2019 as a part of the cooperation and coordination between the two organizations.
- The major objectives are to coordinate data publication and to improve national population and international migration statistics.
- A collaborative team between the two organizations was formed to improve the statistics on foreigners.
- The collaborative team's efforts are what led to the improvement in the current work.

Current Situation



- Use data available at the time of arrival.
- Three groups of foreigners:
 - Legal Work Foreigners 116,000
 - Overstays (Illegal Work Foreigners) 48,000
 - > Asylum seekers and Infiltrators 30,000
- National population Estimates.
- Double counts (once as Israeli and once as foreigner)
- Population Estimates exclude foreigners.

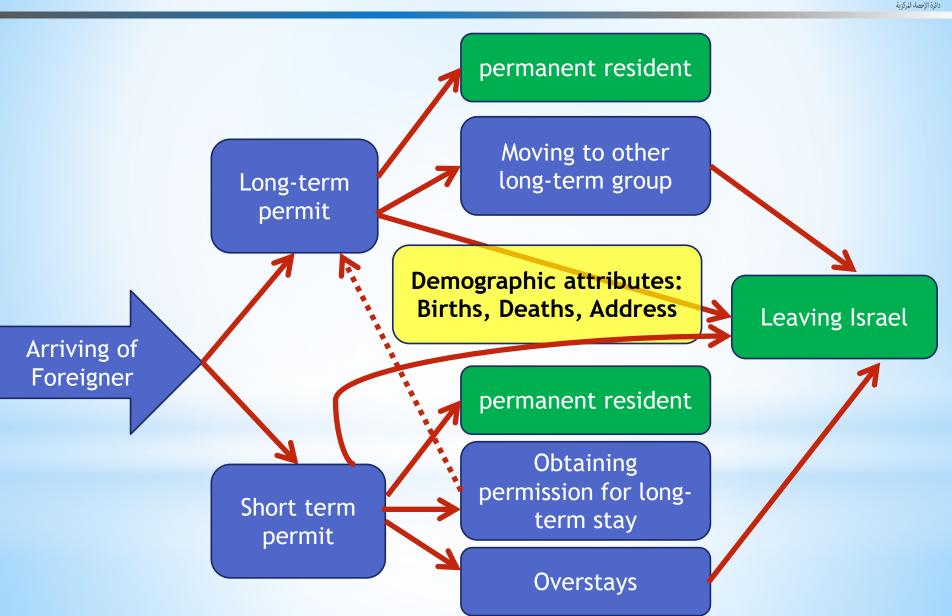
Desired Situation



- Including all Foreign groups
- To update data changes on foreigners after arriving in Israel (including demographic events).
- Usual Resident bases (conducting data on small areas).
- Integration with the 2022 census and with the annual population estimates.

The life cycle of a foreigner in Israel





Data on life cycle



- We need data describing the life cycle of foreigners in Israel so that we can increase the statistics' accuracy and include more groups of foreigners.
- Data on the usual residence location and data on groups that are not currently included, must be included in the data in order to be integrated into the census and into the annual population

 estimates.

Data on life cycle



- Data bases that document the life cycle of foreigners were produced following the cooperation with the Population and Immigration Authority.
- Decause of incorrect typing of the passport number and names, as well as changes on the passport number and names, these sources sometimes do not allow linking records between them.
- So the goal is to link the records between the sources using Soundex and other techniques.

Results: number of Foreigners by group and the presence of an address



| Main groub | Sub-groub | Number of Foreigners | Percent have an address | |
|---|------------------------------|----------------------|-------------------------------|----------------|
| Total | | 208,000 | 75% | |
| Work Permit | Total | 89,000 | 92% | - 116,000 |
| | Construction | 13,000 | 96% | |
| | Agriculture | 19,000 | 85% | |
| | Caregiving | 53,000 | 99% | |
| | Experts and academic workers | 3,000 | 00% | 1 |
| The work permit expired and was not renewed (including cases where PIBA canceled the permit). | | 27,000 | 92% | |
| Jewish students in religious studies | | 22,000 | 97% | |
| Academy Students | | 22,000 | 100% | |
| Asylum seekers and Infiltrators | | 37,000 | 99% | - 30,000 |
| Others (Clergy, volunteers and companions) | | 11,000 | 00% | 30, 000 |
| Over stayers | | 30,000 | 00% | - 48,000 |

Conclusion



- For many years, the CBS has refrained from including foreigners in population estimates and censuses. This is due to the absence of an acceptable sampling frame and the inability to locate the usual address.
- The need to improve foreign data comes from public debate and the growing demand from users for data that is more comprehensive and accurate at the small area level.
- A key element in the project's success is the collaboration with the Population and Immigration Authority, which was demonstrated in cooperative work and the transmission of data to the CBS.
- Despite the project's significant progress, there are still challenges to overcome in order to improve the results, such as finding additional data sources for some of the groups' addresses and/or employing statistical tools like imputations.



Thank you for your attention