

Republic of Moldova: Estimation of migration flows based on border crossings

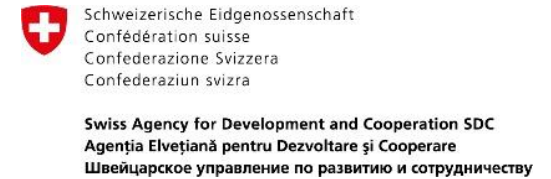
Context & Premises

High flow of **unregistered** international migration

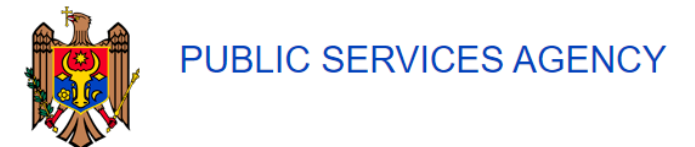
Alignment of the national statistical system with international and European standards

Implementation of the concept of ***usual residence*** in official statistics (Census)

Implementation



Partnerships



Stages passed in estimation of international migration at the regional level

- Identify suitable data SOURCE
- Get DATA from the identified data holder
- Data analysis, imputation and PROCESSING
- Calculate the (e/i)migrant STATUS
- Apply international DEFINITION using border crossing data
- The REDISTRIBUTION of (e/i)migrant at the regional level



1. Identify suitable DATA ...

Sources

Limitations

Statistical surveys

collect information for a relatively small part of the population

limited use of surveys data disaggregated by age, sex and small population groups and geographical subareas

Population census

are conducted only once in a while

cannot be used to produce yearly estimates

Administrative data

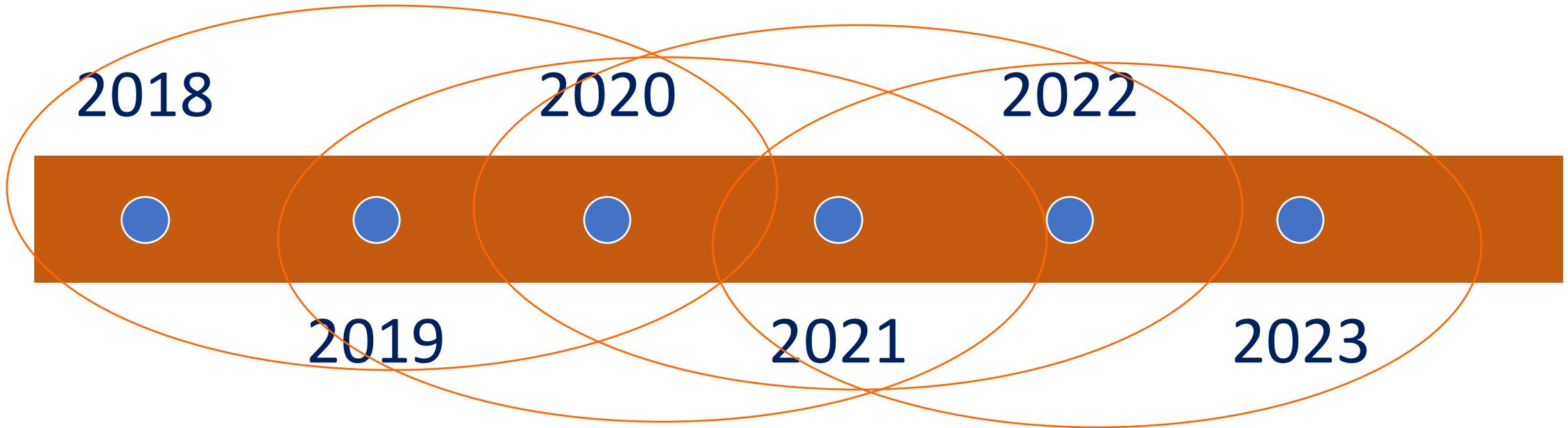
not always available in reliable and complete form

main data source that can be considered the most suitable source for the analysis of international migratory flows

migration STOCK

migration FLOW

2. Get DATA - build DATABASE for each year



T-1

T+1



T

3. Data analysis, imputation, processing

Identification of "illogical" itineraries

	IDNP	gender	birth_date	set	id	m_dir	citizenship	date	Y
201	18	m	10.07.1990	1	676	exit	MOLDOVA	03.11.2015	2015
204	19	m	11.09.1991	1	679	exit	MOLDOVA	27.01.2013	2013
205	19	m	11.09.1991	1	680	entry	MOLDOVA	28.04.2013	2013
206	19	m	11.09.1991	1	681	exit	MOLDOVA	11.09.2013	2013
207	19	m	11.09.1991	1	682	exit	MOLDOVA	24.01.2014	2014
208	19	m	11.09.1991	1	683	entry	MOLDOVA	24.01.2014	2014
209	19	m	11.09.1991	1	684	exit	MOLDOVA	28.01.2014	2014
210	19	m	11.09.1991	1	685	entry	MOLDOVA	23.05.2014	2014
211	19	m	11.09.1991	1	686	exit	MOLDOVA	01.09.2015	2015
217	20	m	19.10.1990	1	692	entry	MOLDOVA	09.10.2013	2013

- movements of a person for 2013-2015
- illogical itinerary

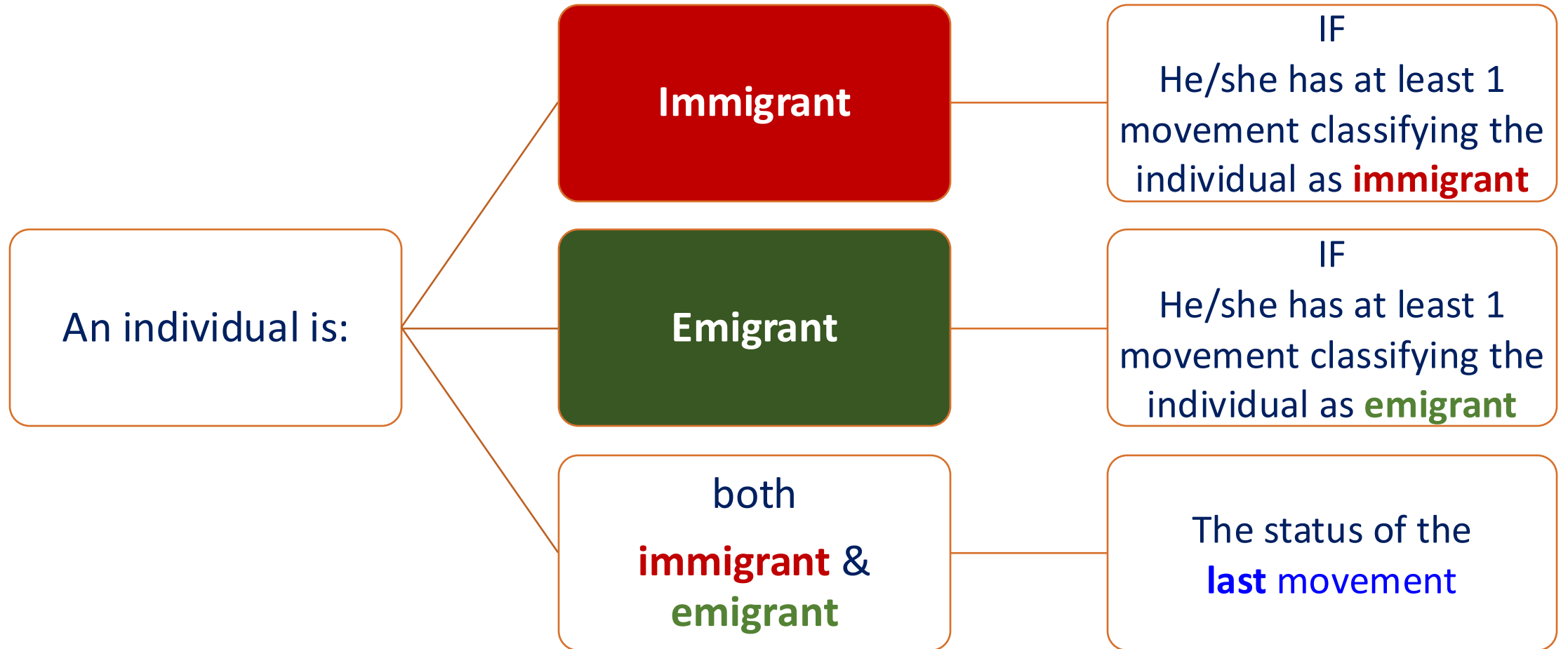
Imputation of a missing movement

	IDNP	gender	birth_date	set	id	m_dir	citizenship	date	Y
249	18	m	10.07.1990	1	676	exit	MOLDOVA	03.11.2015	2015
250	19	m	11.09.1991	1	679	exit	MOLDOVA	27.01.2013	2013
251	19	m	11.09.1991	1	680	entry	MOLDOVA	28.04.2013	2013
252	19	m	11.09.1991	1	681	exit	MOLDOVA	11.09.2013	2013
253	19	m	11.09.1991	1	681	entry	MOLDOVA	18.11.2013	2013
254	19	m	11.09.1991	1	682	exit	MOLDOVA	24.01.2014	2014
255	19	m	11.09.1991	1	683	entry	MOLDOVA	24.01.2014	2014
256	19	m	11.09.1991	1	684	exit	MOLDOVA	28.01.2014	2014
257	19	m	11.09.1991	1	685	entry	MOLDOVA	23.05.2014	2014
258	19	m	11.09.1991	1	686	exit	MOLDOVA	01.09.2015	2015
259	20	m	19.10.1990	1	692	entry	MOLDOVA	09.10.2013	2013

- imputed movement, the date is at the half of the illogical itinerary

Assignment of a date to the missing movement

4. Calculating migration status – by INDIVIDUALS



5. Apply DEFINITION - international migration

Immigrant

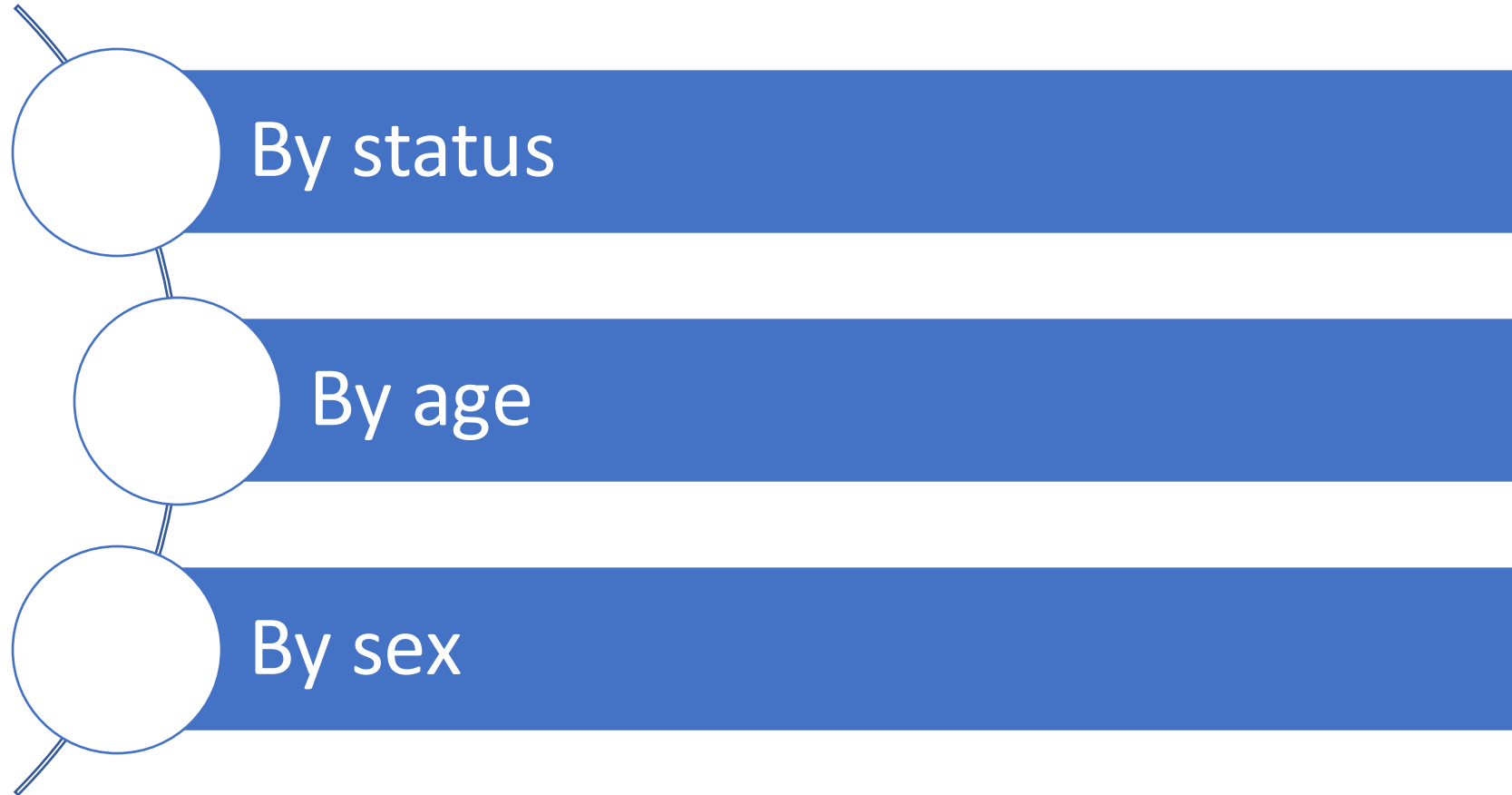
person who **ENTERED** the country and stayed in the country for at least **12 months** during the upcoming year after living abroad for at least **12 months** in the previous year

Emigrant

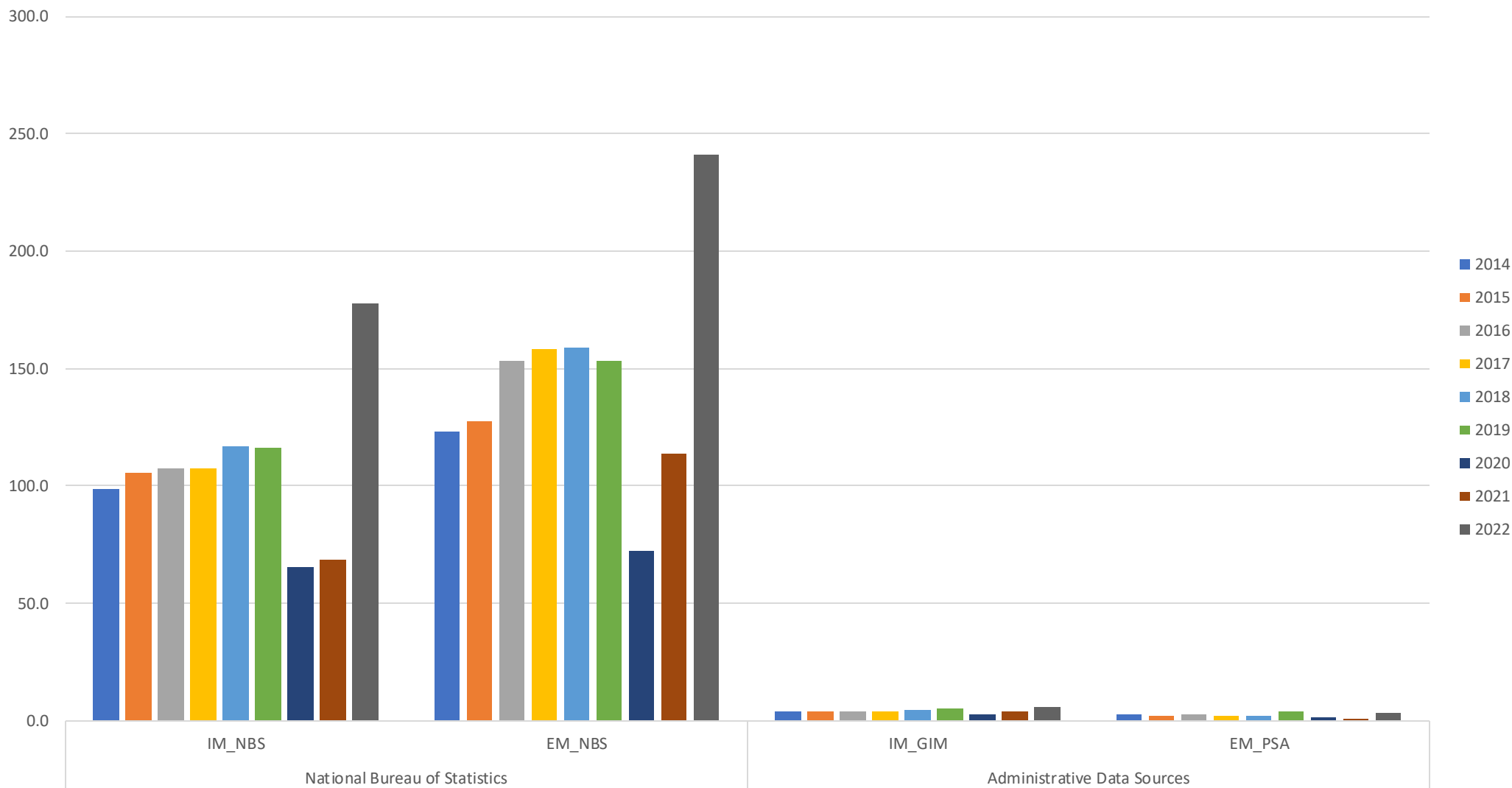
person who **EXITED** from the country and lived abroad for at least **12 months** during the previous year, living in RM for at least **12 months** the year before

Net migration = numbers of immigrants - emigrants during one year

6. The REDISTRIBUTION of (e/i)migrant at the regional level



International migration, thou persons



Thank you for your attention!

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