

## DEMOGRAPHIC STATISTICS - 2018

### NATIONAL REFERENCE METADATA IN SINGLE INTEGRATED METADATA STRUCTURE (SIMS)

#### CONCEPT 1 - CONTACT

##### **Sub-Concept 1.1: Contact organisation**

National Statistics Office (NSO)

##### **Sub-Concept 1.2: Contact organisation unit**

Population, Migration and Crime Statistics Unit

##### **Sub-Concept 1.3: Contact name**

Ms. Dorothy Galea Gauci

##### **Sub-Concept 1.4: Contact person function**

Head of Unit

##### **Sub-Concept 1.5: Contact mail address**

National Statistics Office (NSO),  
Lascaris, Valletta, VLT 2000, Malta.

##### **Sub-Concept 1.6: Contact e-mail address**

dorothy.gauci@gov.mt

##### **Sub-Concept 1.7: Contact phone number**

+356 2599 7854

#### CONCEPT 2 – METADATA UPDATE

##### **Sub-Concept 2.1: Metadata last certified**

23/10/2019

##### **Sub-Concept 2.2: Metadata last posted**

7/10/2019

##### **Sub-Concept 2.3: Metadata last update**

7/10/2019

## **CONCEPT 3 – STATISTICAL PRESENTATION**

### **Sub-Concept 3.1: Data description**

Demographic statistics for Malta provide annual data on population, vital events (live births and deaths) and marriages. The completeness of the tables depends on the availability of data received from the responsible Public Authorities in Malta and Gozo. This information is also compiled basing on a harmonised methodology as stipulated by [European Regulation \(EC\) No. 1260/2013](#). The following information is produced by the National Statistics Office (NSO) on an annual basis. Some of this data are also transmitted to Eurostat.

For reference year T, at LAU level, NSO compiles:

- Total population by sex at 31st December: year T
- Total population by sex at 30th June: year T
- Maltese population by sex at 31st December: year T
- Maltese population by sex at 30th June: year T
- Population density in year T
- Number of total usual resident live births by sex and residence of parents: year T
- Number of Maltese usual resident live births by sex and residence of parents: year T
- Usual resident deaths by sex occurring during year T

For reference year T, at NUTS3 level, NSO compiles:

- Total population by sex at 30th June: year T
- Total population by age, sex and district at 31st December: year T
- Maltese population by age, sex and district at 31st December: year T
- Maltese population by sex at 30th June: year T
- Population density in year T
- Number and rate of total usual resident live births by sex residence of parents: year T
- Number and rate of Maltese usual resident live births by residence of parents: year T
- Usual resident deaths and crude death rate by sex occurring during year T
- Registered marriages occurring in year T

Tables are compiled mainly during July of year T+1.

At national level a larger number of demographic indicators are computed. These include:

- Demographic balance (population change, natural change, net migration);
- Annual migration flows
- Mean age at childbearing;
- Total fertility rates;
- Life tables and life expectancy;
- Neonatal deaths and crude rate of neonatal deaths;
- Infant mortality and crude rate of infant mortality;
- Age of marrying spouses

### Sub-Concept 3.2: Classification system

The regional breakdown used by NSO is according to the [Commission Regulation \(EU\) No. 31/2011](#) amending annexes to [Regulation \(EC\) No. 1059/2003](#) of the European Parliament and of the Council on the establishment of a common classification of territorial units for statistics (NUTS).

The local administrative units, abbreviated as [LAUs](#), form a system for dividing up the economic territory of the European Union (EU) for the purpose of statistics at local level. They have been set up by Eurostat and they are compatible with NUTS. The LAU classification is equivalent to the classification of all Maltese localities into six districts by Malta Geographic Codes (MGC).

At local level, two levels of LAU have been defined:

The upper level (LAU1, formerly NUTS level 4)

The lower level (LAU2, formerly NUTS level 5)

### Sub-Concept 3.3: Sector coverage

Usual residents of Malta.

### Sub-Concept 3.4: Statistical concepts and definitions

Common definitions:

1. **Population:** is based on the concept of usual resident population (as stipulated in European Regulation (EC) No. 1260/2013) and it is the number of inhabitants on 31 December of the reference year. The population figures are based on data from the most recent census adjusted by the components of population change produced since the last census.

Usually resident population means all persons having usual residence in a country at the reference time. Usual residence means the place where a person normally spends the daily period of rest, regardless of temporary absences for purposes of recreation, holidays, visits to friends and relatives, business, medical treatment or religious pilgrimage.

The following persons are counted as usual residents of the geographical area in question:

- Those who have lived in their place of usual residence for a continuous period of at least 12 months before the reference time; or
- Those who arrived in their place of usual residence during the 12 months before the reference time with the intention of staying there for at least one year.

2. **Live birth:** means the complete expulsion or extraction of a baby from its mother as a result of conception, irrespective of the duration of pregnancy. After such separation, a birth is considered live-born if it breathes or shows any other evidence of life, such as beating of the heart, pulsation of the umbilical cord or definite movement of voluntary muscles, whether or not the umbilical cord has been cut or the placenta is attached. Resident live births include all babies whose parent(s) is(are) resident in Malta at the time of birth. Therefore, the definition excludes births born to parents who are resident abroad.

3. **Death:** means the permanent disappearance of all evidence of life at any time after live birth has taken place (postnatal cessation of vital functions without capability of resuscitation). This

definition excludes still births. Infant death means the death of a live-born infant who has not yet completed 1 year of life. Resident deaths include Maltese residents who die abroad and whose death is subsequently registered in Malta but exclude deaths of tourists and non-residents.

4. Total area: represents the total area of the region including inland waters; it is expressed in km<sup>2</sup>. Land area represents the total land area of the region, excluding the area under inland water; it is expressed in km<sup>2</sup>.

5. Reference year: represents the calendar year for which vital events occurred.

Demographic Indicators:

Population change - the difference between the size of the total population at the end and the beginning of a period.

Natural change - the difference between the number of live births and the number of deaths during the year. The natural change (or natural decrease) is negative when the number of deaths exceeds the number of births. The natural change (or natural increase) is positive when the number of births exceeds the number of deaths.

Demographic balance - is the equation that describes the change in the size of the population due to the flows of live births, deaths, immigration and emigration that occur in the reference year T.

$$\text{Population}[T] = \text{Population}[T-1] + \text{Births}[T] - \text{Deaths}[T] + \text{Net Migration}[T]$$

Where:

Population[T] = total (resident) population on 31st December of the year T;

Population[T-1] = total (resident) population on 31st December of the previous year T-1;

Births[T] = total number of (resident) live births occurring during the year T;

Deaths[T] = total number of (resident) deaths occurring during the year T;

Net Migration[T] = net migration during the year T.

Population density the ratio of the population to the (land) area of the region; total area (including inland waters) is used when land area is not available.

Crude birth rate - the ratio of the total number of resident live births during the year, to the average resident population in that year. The value is expressed per 1000 inhabitants.

Crude death rate - the ratio of the total number of resident deaths during the year to the average resident population in that year. The value is expressed per 1000 inhabitants.

Infant mortality rate - the ratio of the total number of resident deaths of children under one year of age during the year to the number of resident live births in that year. The value is expressed per 1000 resident live births.

Total fertility rate (TFR) - the mean number of children that would be born alive to a woman during her lifetime if she were to pass through her childbearing years conforming to the fertility rates by

age of a given year. The TFR is calculated through the summation of the age specific fertility rates in a given year.

Fertility rates by mother's age (Age Specific Fertility Rate) - the number of resident live births of mothers of age x to the average female resident population of age x. Malta uses the concept of 'age completed' for calculation of the fertility indicators.

Life expectancy at age x - the mean number of years still to be lived by a person who has reached a certain exact age, if subjected, throughout the rest of his/her life, to the current mortality conditions (age-specific probabilities of dying).

Life table - summarizes various aspects of the variation of mortality with age and showing, for each age, the probability that a person of that age will die before his next birthday. Functions pertaining to mortality are available in distinct tables: age specific death rates, probabilities of dying between exact ages, probability of surviving between exact ages, number left alive at a given exact age, number dying between exact ages, person-years lived between exact ages, total person-years lived above given exact age and life expectancy at given exact age. Malta uses the concept of age completed for the calculation of the mortality indicators by age.

Common concepts:

Age concept:

Age represents the elapsed time since birth. The age concept includes two definitions:

- Age reached (or age reached during the year) represents the number of completed years lived at the end of calendar year in question. For example, under this age concept, a person born in 1942 will be 70 on each day of the calendar year 2012, irrespective of his/her birthday. This is the case of all the 1942 generation. The age reached during the year is also equal to the year in question minus the year of birth ( $2012-1942 = 70$ ).
- Age completed (or age last birthday) represents the number of completed years lived by a person, so no decimals are taken into account. It is expressed as the number of birthday anniversaries passed on the date of reference.

The concept 'Open-ended Age Class' is meant to be a solution for presenting different open-ended age classes for data on population and deaths. The open-ended age classes for data on population and deaths are both 90 and over.

### **Sub-Concept 3.5: Statistical unit**

Usually resident population.

### **Sub-Concept 3.6: Statistical population**

- Describe the target statistical population (one or more) which the dataset refers to, i.e. the population about which information is to be sought.

Total population at a given NUTS level or LAU level;  
Mid-year population at a given NUTS level or LAU level.

### **Sub-Concept 3.7: Reference area**

Country: Malta

NUTS1 level: Malta

NUTS2 level: Malta

NUTS3 level: Malta and Gozo.

LAU1 level: 6 regions

LAU2 level: 68 local administrative units

### **Sub-Concept 3.8: Time coverage**

Annual.

### **Sub-Concept 3.9: Base period**

Population estimates use the 2011 [Census of Population and Housing](#) as the base population.

## **CONCEPT 4 – UNIT OF MEASURE**

- Population, live births and deaths are expressed in absolute values.
- Crude rates are expressed per 1000 of the average population.
- Population density is expressed as absolute value of the average population per square kilometre.

## **CONCEPT 5 – REFERENCE PERIOD**

Data refers to year 2018.

## **CONCEPT 6 – INSTITUTIONAL MANDATE**

### **Sub-Concept 6.1: Legal acts and other agreements**

[The Malta Statistics Authority Act, 2000.](#) The Act empowers the NSO to collect, compile, extract and release official statistics related to demographic, social, environment, economic and general activities and conditions of Malta.

Demographic statistics are compiled and submitted in line with [European Regulation \(EC\) No. 1260/2013.](#)

Furthermore, all data that is requested and collected is done so in line with the provisions of the General Data Protection Regulations allowing for data to be shared for statistical purposes.

### **Sub-Concept 6.2: Data sharing**

Not applicable.

## **CONCEPT 7 - CONFIDENTIALITY**

### **Sub-Concept 7.1: Confidentiality – Policy**

#### At National level:

The NSO requests information for the compilation of official statistics according to the articles of the MSA Act – Cap. 422 and the Data Protection Act – Cap. 586 of the Laws of Malta implementing the General Data Protection Regulations (GDPR).

Article 40 of the MSA Act stipulates the restrictions on the use of information while Article 41 stipulates the prohibition of disclosure of information. Furthermore, Section IX of the Act (Offences and Penalties) lays down the measures to be taken in case of unlawful exercise of any officer of statistics regarding confidentiality of data.

Since its inception, the NSO has always assured that all data collected remains confidential and that it is used for statistical purposes only according to the articles and derogations stipulated in the laws quoted above. The Office is obliged to protect the identify of data providers and refrain from divulging any data to third parties that might lead to the identification of persons or entities.

During 2009, the NSO has set up a Statistical Disclosure Committee to ensure that statistical confidentiality is observed, especially when requests for microdata are received.

Upon employment, all NSO employees are informed of the rules and duties pertaining to confidential information and its treatment. In line with stipulations of the MSA Act, before commencing work, every employee is required to take an oath of secrecy whose text is included in the same Act.

An internal policy on anonymisation and pseudo-anonymisation is in place to ascertain that adequate methods are used for the protection of data which the office collects and shares with the public in its capacity as the National Statistics Office. The policy is meant to safeguard confidentiality of both personal and business data entrusted to the NSO. The document provides guidance for all NSO employees who process data on a daily basis as to how anonymisation and pseudo-anonymisation methods should be applied. The policy applies to all confidential, restricted and internal information, regardless of form (paper or electronic documents, applications and databases) that is received, processed, stored and disseminated by the NSO.

#### At European level:

[Regulation \(EC\) No 223/2009](#) on European statistics (recital 24 and Article 20(4) of 11 March 2009 (OJ L 87, p. 164), stipulates the need to establish common principles and guidelines ensuring the confidentiality of data used for the production of European statistics and the access to those confidential data with due account for technical developments and the requirements of users in a democratic society.

### **Sub-Concept 7.2: Confidentiality – Data Treatment**

Not applicable - total aggregate figures are published therefore small count rules do not apply.

Population and demographic data do not need to be flagged for confidentiality because the risk of identification is low. This is supported by the fact that the impact of unlawful disclosure is low and that consequences for respondents of a loss control are not significantly high.

## **CONCEPT 8 – RELEASE POLICY**

### **Sub-Concept 8.1: Release Calendar**

An advance release calendar is maintained by the NSO and published on the NSO website. The calendar projects three months of news releases (including the current and two subsequent months).

Moreover, the NSO is a member of the Special Data Dissemination Standards (SDDS) Committee, which sets dissemination standards set by the International Monetary Fund with a view of enhancing the availability of timely and comprehensive statistics in order to support macroeconomic policies. As a member of the SDDS Committee, NSO satisfies a number of criteria, which also entails the provision of an advanced news release calendar.

### **Sub-Concept 8.2: Release Calendar access**

NSO news release calendar is available on:

[https://nso.gov.mt/en/News\\_Releases/Release\\_Calendar/Pages/News-Release-Calendar.aspx](https://nso.gov.mt/en/News_Releases/Release_Calendar/Pages/News-Release-Calendar.aspx)

### **Sub-Concept 8.3: User access**

An internal policy on dissemination is in place to govern the dissemination of official statistics in an impartial, independent and timely manner, making them available simultaneously to all users.

The NSO's primary channel for the dissemination of official statistics is the NSO website. Tailored requests for statistical information may also be submitted through the NSO website.

Moreover, dedicated news releases are available in electronic format on the NSO website.

## **Concept 9 – Frequency of Dissemination**

Annual.

## **CONCEPT 10 – ACCESSIBILITY AND CLARITY**

### **Sub-Concept 10.1: News release**

Population estimates are published annually in July to mark World Population Day.

### **Sub-Concept 10.2: Publications**

Not applicable.



### **Sub-Concept 10.3: Online Database**

Annual updates of the following are available on [StatDB](#):

- Total population by region, district and locality
- Total population by sex and single years of age
- Crude death rate, crude birth rate and total fertility rate.

### **Sub-Concept 10.4: Micro-data access**

Not applicable.

### **Sub-Concept 10.5: Other**

Specific tailored requests may be provided upon request against a cost recovery charge.

### **Sub-Concept 10.6: Documentation on methodology**

NSO strictly follows the methodological recommendations stipulated by Eurostat and the Regulation in order to ensure harmonisation of results. The methodology to estimate the usual resident population is based on the idea of the computation of demographic events under the usual residence definition and adding this information to the usual residence population of the previous reference date.

Work processes and procedures for the compilation of Demographic statistics are documented in a standardised reporting template and aligned to the GSBPM model. The model covers all phases of the statistical production process, from the initial stages of identifying what statistics are needed and the scope of the particular survey, to the final stages of dissemination and evaluation. The GSBPM report is only available internally and may be accessed by all NSO employees.

#### **Sub-Concept 10.6.1: Metadata completeness rate**

Information about all required metadata concepts (and sub-concepts thereof) are provided.

### **Sub-Concept 10.7: Quality Documentation**

Refer to sub-concept 10.6.

Dedicated SIMS reports are available to the public on the [NSO's metadata website including concepts related to metadata and quality](#).

The NSO has developed an internal Quality Management Framework (QMF) which is built on common requirements of the ESS Code of Practice (ESS CoP). A document was prepared to include a set of general quality guidelines spanning over all statistical domains. Assuring methodological soundness is an integral part of the QMF, nonetheless, the document spans also on other areas related to institutional aspects.

## **CONCEPT 11 – QUALITY MANAGEMENT**

### **Sub-Concept 11.1: Quality Assurance**

Many efforts are made by NSO in order to ensure the production of demographic statistics at high quality standards. Measures that are implemented during the analysis stage include:

- Thorough checks on the administrative registers used for the compilation of vital events
- Thorough checks on the administrative data used for the compilation of migration flows
- Checks for double counting
- Validation and cross-checking of results with auxiliary sources and past year's data including census results

The NSO ensures the accuracy of data released to the public and prepares clear methodological notes which explain the processes involved in the collection and production of official statistics.

The NSO has developed an internal Quality Management Framework (QMF) which is built on common requirements of the ESS Code of Practice (ESS CoP). A document was prepared to include a set of general quality guidelines spanning over all statistical domains. Assuring methodological soundness is an integral part of the QMF, nonetheless, the document spans also on other areas related to institutional aspects.

Every five to seven years, the NSO participates in a Peer Review exercise through which the compliance of its operations with principles of the ESS CoP is assessed by an expert team. Peer Reviews are indeed part of the European Statistical System (ESS) strategy to implement the ESS CoP. Each NSI is expected to provide information as requested by a standard self-assessment questionnaire. Following this an expert team visits the office to meet NSI representatives and main stakeholders. Peer Reviews result in a compliance report and the listing of a set of Improvement Actions which need to be followed up by the NSI. The next round of Peer Reviews is planned to be carried out in 2022.

### **Sub-Concept 11.2: Quality Assessment**

NSO has access to a comprehensive set of high-quality administrative sources for the calculation of vital events.

Measuring migration flows is far more difficult, since in Malta, there is no register that can fully cover all migration flows. In view of this, the estimation of migration statistics in Malta is mainly done using different administrative sources. On the other hand, data that cannot be extracted from these registers is estimated through appropriate mathematical models. Although this procedure suffices to provide reliable migration statistics, it is still prone to errors (e.g. double counting, over-estimation of migrants; under/over reporting due to late registrations, etc.), which can hardly be quantified.

## **CONCEPT 12 - RELEVANCE**

### **Sub-Concept 12.1: User needs**

Demographic statistics are often sought by many different users:

- Internal use: High quality population statistics are essential for the calculation of the Gross domestic Product per capita. Moreover, they are essential for estimating probabilities of selection in survey sampling and hence the calculation of weights.

- National users include: Ministries, Government departments and Authorities working within the social and economic spheres; research institutes, University of Malta, other policy makers, etc.
- International users include Eurostat; OECD; UNECE; European Commission's Directorate General for Employment, Social Affairs & Inclusion; etc.

### **Sub-Concept 12.2: User satisfaction**

The last User Satisfaction Survey was held in 2014 with the aim to collect information about key users' satisfaction with statistical output.

The NSO keeps record of the number of News Releases and publications disseminated on its website; the users to whom statistical products are provided; as well as the number of requests that are processed every year.

News Releases and tailor-made statistical outputs were assessed on account of their quality, timeliness, and on their ability to meet users' needs.

### **Sub-Concept 12.3: Data Completeness**

All compulsory data outlined through the Regulation are submitted.

## **CONCEPT 13 – ACCURACY AND RELIABILITY**

### **Sub-Concept 13.1: Overall accuracy**

Possible sources of errors:

- Under-reporting in administrative registers mainly due to late registrations
- Over-coverage due to possible inconsistencies with the usual residence definition
- Double counting of persons enlisted in more than one register
- Inaccuracies in the mathematical models used in order to estimate migration components not available in the registers

### **Sub-Concept 13.2: Sampling errors**

Not applicable.

### **Sub-Concept 13.3: Non-sampling error**

Possible sources of errors:

- Under-reporting in administrative registers mainly due to late registrations
- Over-coverage due to possible inconsistencies with the usual residence definition
- Double counting of persons enlisted in more than one register
- Inaccuracies in the mathematical models used in order to estimate migration components not available in the registers

**Sub-Concept 13.3.1: Coverage error**

Refer to sub-concept 13.1

**Sub-Concept 13.3.1.1: Over Coverage**

Not applicable.

**Sub-Concept 13.3.1.2: Common Units Proportion**

Not applicable.

**Sub-Concept 13.3.2: Measurement error**

Not applicable.

**Sub-Concept 13.3.3: Non-response error**

Not applicable.

**Sub-Concept 13.3.3.1: Unit non-response**

Not applicable.

**Sub-Concept 13.3.3.2: Item non-response**

Not applicable.

**Sub-Concept 13.3.4: Processing error**

Not applicable.

**Sub-Concept 13.3.5: Model assumption error**

There may be some inaccuracies in the mathematical models used in order to estimate migration components not available in the registers

**CONCEPT 14 – TIMELINESS AND PUNCTUALITY****Sub-Concept 14.1: Timeliness**

Data are compiled and sent to Eurostat within the deadlines stipulated by the Regulation. The data are made available to users shortly afterwards either from NSO or Eurostat.

**Sub-Concept 14.2: Punctuality**

Data are compiled and sent to Eurostat within the deadlines stipulated by the Regulation.

## **CONCEPT 15 – COHERENCE AND COMPARABILITY**

### **Sub-Concept 15.1: Comparability – Geographical**

Data are fully comparable at NUTS and LAU level.

### **Sub-Concept 15.2: Comparability – Over time**

Minor changes have been made over time in the methodology used for the compilation of population estimates. These changes were implemented in order to improve the accuracy of the estimates and cross-domain coherence. All improvements were implemented in line with the usual residence definition therefore it can be assumed that comparability over time is achieved.

### **Sub-Concept 15.3: Coherence – Cross Domain**

The total usual residence population transmitted by the National Statistical Office to Eurostat in the framework of the Usual Residence Population. Data collection may differ from those available in National Accounts, the Labour Force Survey and the Survey on Income and Living Conditions. The difference can be explained through the population coverage whereby a given survey may refer to the private household population or may not adhere to the Usual Residence Definition.

#### **Sub-Concept 15.3.1: Coherence – Sub-Annual and Annual statistics**

Not applicable.

#### **Sub-Concept 15.3.2: Coherence – National Accounts**

Not applicable.

#### **Sub-Concept 15.4: Coherence – Internal**

Refer to Sub-Concept 15.3.

## **CONCEPT 16 – COST AND BURDEN**

Compilation of demographic statistics is mainly based on administrative registers. In view of this, the burden on the respondents is minimal. On the other hand, the compilation of these statistics is very resource intensive and requires the employment of at least two full-time experienced statisticians.

## **CONCEPT 17 – DATA REVISION**

### **Sub-Concept 17.1: Data revision – Policy**

At the NSO, there is currently no internal policy governing revisions that occur for all statistics produced. Nonetheless, a revisions policy is being drafted to safeguard a coordinated revisions system across statistical domains.

This policy will take account of the need and causes for revisions; time and frequency of revisions; data and other statistical products affected by such revisions; and length of periods revised.

At a European level, any revision of data as required by [Regulation 1260/2013](#) is conducted in line with article 5 of implementing regulation 205/2014.

### **Sub-Concept 17.2: Data revision – Practice and Data Revision**

When required, post-census revisions are conducted to align updates of population counts with the census data, and therefore avoid breaks in time series. Such revisions are made available to users once they are completed. Other ad-hoc revisions may be conducted if deemed necessary, these include benchmarking revisions such as those which were undertaken in 2017 for the estimation of migration flows. A News Release which may be accessed via the NSO website through: [https://nso.gov.mt/en/News\\_Releases/View\\_by\\_Unit/Unit\\_C5/Population\\_and\\_Migration\\_Statistics/Pages/Population%20Revisions.aspx](https://nso.gov.mt/en/News_Releases/View_by_Unit/Unit_C5/Population_and_Migration_Statistics/Pages/Population%20Revisions.aspx) was published in order to present the revised figures

## **CONCEPT 18 – STATISTICAL PROCESSING**

### **Sub-Concept 18.1: Source data**

- **Population:** Compilation of demographic statistics is carried out mainly using administrative data, although mathematical models and survey-based estimates are used for the compilation of some migration flows.
- **Births and Deaths:** Compilation of these vital statistics are carried out mainly using administrative data.
- **Migration:** Compilation of migration flows is carried out mainly using administrative data, although mathematical models and survey-based estimates are used for the compilation of some migration flows. Data sources are as follows:
  1. Immigration of Maltese nationals - Tourstat (Tourism Border Survey) and most recent Census
  2. Emigration of Maltese nationals - Tourstat (Tourism Border Survey) and most recent Census
  3. Asylum Seekers - Data from the Office of the Refugee Commissioner and Refugee Appeals Board
  4. EU nationals - Jobsplus - Engagement and Termination Forms for immigration and emigration respectively; Resident Permit Database for immigration and emigration estimates of dependents.
  5. Third Country Nationals - Department of Citizenship and Expatriate Affairs - Residence Permit Database

### **Sub-Concept 18.2: Frequency of data collection**

Yearly.

### **Sub-Concept 18.3: Data Collection**

Refer to sub-concept 18.1.

### **Sub-Concept 18.4: Data Validation**

In the compilation of demographic statistics validation checks are done through the comparison of previously provided data in order to ensure consistency.

## Sub-Concept 18.5: Data Compilation

All demographic indicators are calculated at national level and all aggregates use a common methodology.

### Demographic balance -

- An equation that describes the change in the size of the population due to the flows of live births, deaths, immigration and emigration that occur in the reference year T.
- Vital events are compiled from administrative sources.
- Net migration - the difference between the number of immigrants and the number emigrants during the year (net migration is therefore negative when the number of emigrants exceeds the number of immigrants).

Migration flows are calculated using the following components:

### Maltese Nationals

- Immigration of Maltese Nationals is calculated based on figures extracted from the most recent Census of Population and Housing using the information collected regarding residence one year prior to the Census. Using figures resulting from the Tourstat border survey, the change observed between the year when the census was undertaken, and the reference year is applied on the Census figures.
- Emigration of Maltese Nationals is calculated based on the figures resulting from the Tourstat border survey for Maltese Nationals travelling from Malta. The duration of trip is analysed and an average number of persons who intend to stay away from Malta for 12 months or more over the past 3 years is calculated.

### EU Nationals

- Immigration of EU Nationals is calculated based on the figures of engagement forms presented by the Jobsplus for the reference year in question. These are then linked to the termination of employment data in order to remove persons who have not been in employment for at least 1 year. The data are then checked with the ID Card database (CDB) in order to remove persons who were registered in Malta prior to the reference year.
- Emigration of EU Nationals is calculated based on the termination of employment data. Therefore, persons who terminated their job and have not been re-employed, are considered as emigrants.
- Both immigration and emigration of the dependents of EU Nationals are calculated based on a factor extracted from the EU Nationals notifying their residence in Malta from the Residence Permits database.

### Third Country Nationals

### Asylum Statistics:

- Immigration: The database held at the Office of the Commissioner for Refugees is used to extract persons covered by first instance decisions who have been granted refugee status, subsidiary protection status or temporary protection. The data collected by the Refugee Appeals board is used to provide figures for persons granted a positive decision following the lodging of an Appeal.

- Emigration include resettled persons, i.e. third-country nationals who, on a resettlement request from UNHCR based on their need for international protection, are transferred to a Member State where they are permitted to reside.

Residence Permits:

- Immigration of TCNs is calculated based on resident permits available in the database managed by the Department for Citizenship and Expatriate Affairs. Estimates in the reference year are calculated based on date of entry and accumulated duration of permit/s validity in line with the intended 12-month criteria for Usual Residence.
- Emigration of TCN includes persons whose permit has not been extended and who were considered residents of the population based on the Usual Residence Definition. Data are extracted from the resident permits database managed by the Department for Citizenship and Expatriate Affairs.

Data are not normally subject to any compilation processes since administrative sources are used. However, if information is missing with regards to a particular person and his/her identity card is available, alternative sources (like the common database (CDB)) are used to assign such information, for example, date of birth, gender etc.

**Sub-Concept 18.5.1: Imputation**

Not applicable.

**Sub-Concept 18.6: Adjustment**

Not applicable.

**Sub-Concept 18.6.1: Seasonal Adjustment**

Not applicable.

**CONCEPT 19 - COMMENT**

No further comments.