



**United  
Nations**

Department of  
Economic and  
Social Affairs

# Data collection and processing in the DYB system

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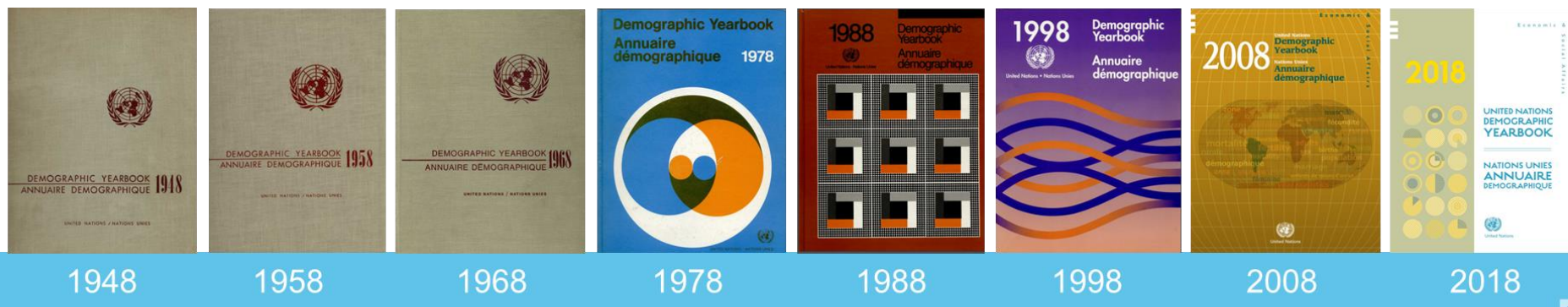


## Who We Are

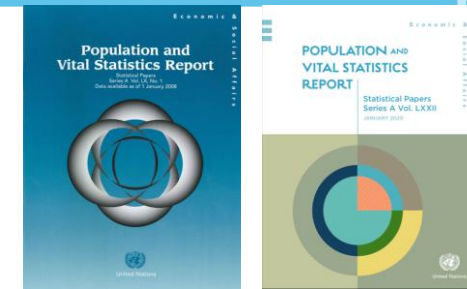
- **Demographic Statistics Section**, Statistics Division, Department of Economic and Social Affairs (DESA) has been collecting, validating and disseminating census statistics, population estimates and vital statistics, reported by national statistical offices, through the United Nations Demographic Yearbook (DYB) and other products.
- **The DYB team** consists of Editor, Associate Editor and 4 desk officers working under the guidance of Chief of Section.

## Annual Publications

- [United Nations Demographic Yearbook](#) (since 1948)



- [Population and Vital Statistics Report](#)



## Data Dissemination through










- Most of data are uploaded twice a year and made available online at [UNdata](https://data.un.org).

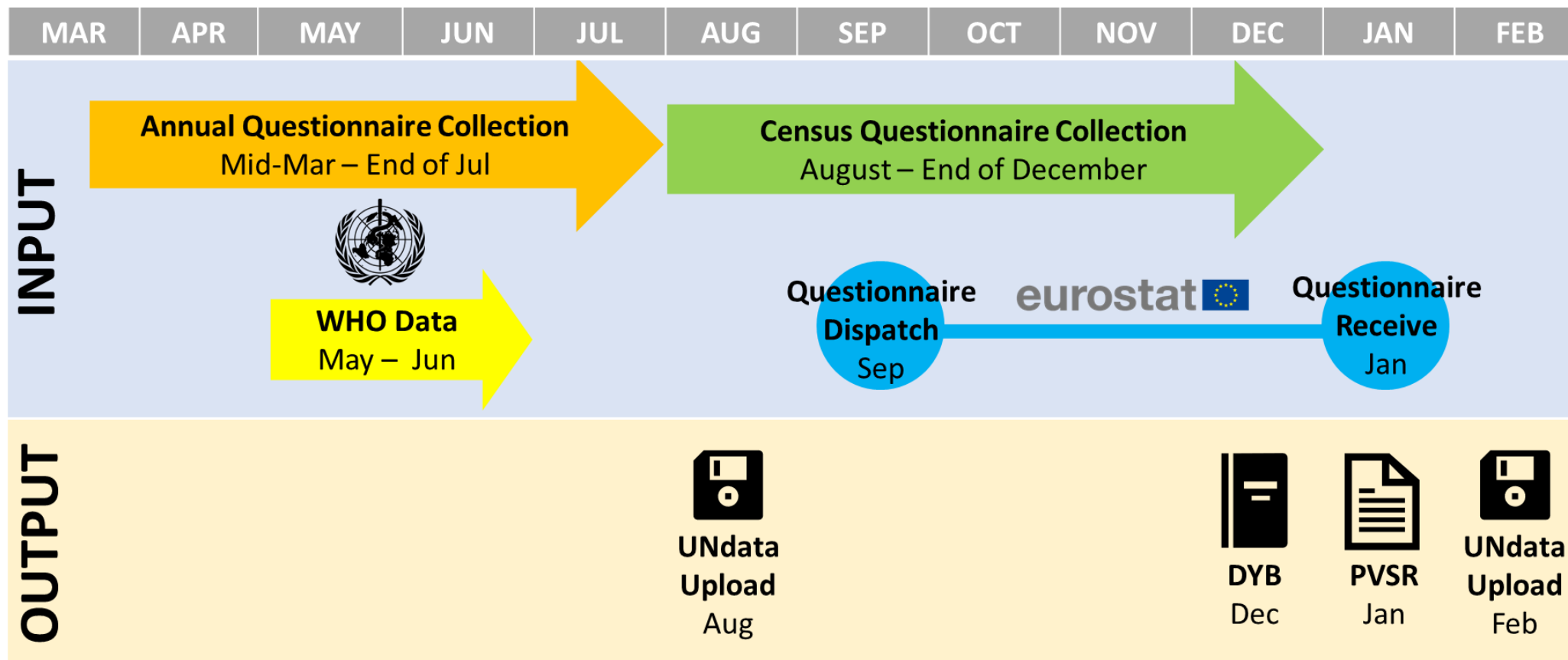


Commodity Trade Statistics Database United Nations Statistics Division (UNSD) 

**Demographic Statistics Database** United Nations Statistics Division (UNSD) 

- City population by sex, city and city type  Preview  View data
- Deaths by age, sex and urban/rural residence  Preview  View data
- Deaths by cause of death, age and sex (WHO data)  Preview  View data
- Deaths by month of death  Preview  View data
- Deaths by sex and urban/rural residence  Preview  View data
- Divorces by urban/rural residence  Preview  View data

# Timeline





## Data Collection – Annual Questionnaires Collection

- Request **238** countries and areas to report population estimates, vital and migration statistics for DYB. **48** countries submit their data through **Eurostat**.
- [Demographic Yearbook Annual Questionnaires](#) (in Excel) consist of
  - **Population estimates** (PE) and metadata
  - **Vital statistics** (VT) and metadata
  - **International travel and migration statistics** (MF)



## Data Collection – Census Questionnaires Collection

- Request countries that have conducted census in the year or before to report the result of their census for **the 2020 World Population and Housing Census Programme**.
- [Demographic Yearbook Census Questionnaires](#) (in Excel) consist of
  - **General characteristics** (PC) and metadata in Word
  - **Economic characteristics** (ECM; ECA for other versions of ISIC/ISCO)
  - **Household characteristics** (HH)
  - **Housing Census National Data** (HCN) and **Housing Census for Cities** (HCC)



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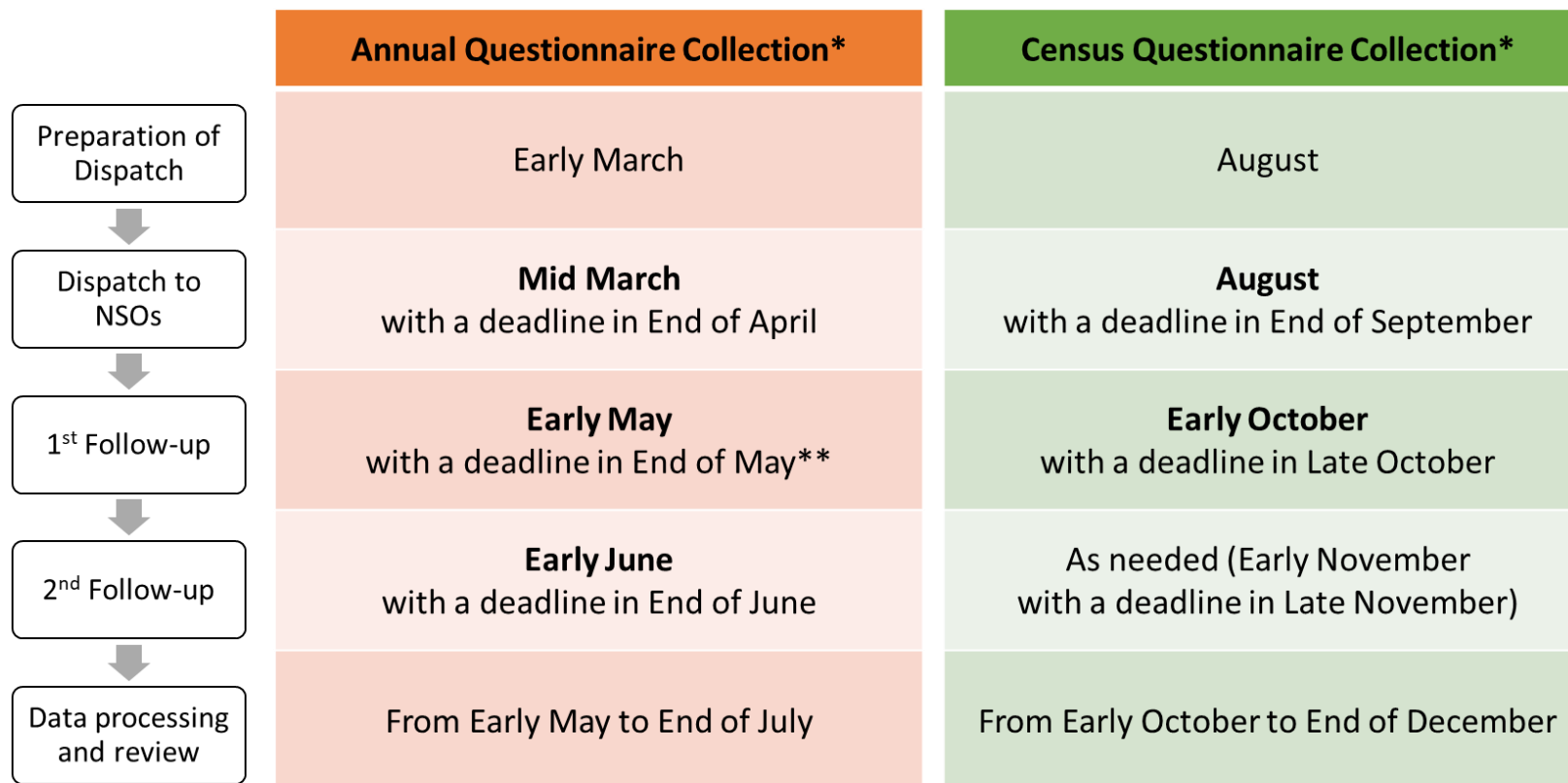
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## Data Sharing by Eurostat and WHO

- **Eurostat** annually shares demographic and vital statistics for 48 countries under its coverage: Western and Eastern Europe, South Caucasus, Turkey and Cyprus
- **World Health Organization (WHO)** shares data on deaths by cause of death every two years.



## Dispatch of Questionnaires and Follow-ups



\* Timing of questionnaire dispatch and follow ups may vary across years.

\*\* Data received after End of May may not be reflected in the upcoming Yearbook.



## Submission Status in last 6 Annual Questionnaire Collections

	2015	2016	2017	2018	2019	2020
Number of countries reported	120	124	116	117	131	141
Number of countries reported (%)	51.28%	52.77%	49.57%	49.16%	55.04%	59.24%

- **53 countries and areas (22.27% of 238)** have not reported data in the past 6 years.
- **Data gaps** are supplemented by information from NSO official webpage and publications.



## Validating Data Collected

- Upon receipt, staff members of the DYB team start processing and validating submitted data based on metadata received, historical trends and international principles and recommendations.
- In addition, **the Demographic Statistics Database (DYB database)** detects any add-up and cross-table inconsistencies in working data if any according to the pre-determined validations rules.
- When any inconsistencies are found in the course of validation process, we contact a data reporter for revisions and clarifications. Indeed, **these probing exercises are very frequent** because we often find a few errors in reporting for DYB.
- Then the DYB team releases the data to the internal database.



## Conclusions

- DYB has been collecting, validating and disseminating demographic data over the world with support of NSOs and stakeholders.
- Data inconsistencies are frequent.
- **Future of data collection and processing in the DYB system**
  - Automation – self-validating reporting, SDMX
  - Publications catalogue



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## Guiding questions

1. How do you find data reporting for the DYB, especially DYB questionnaires, data collection process, follow-ups and timeline?
2. How can we streamline and improve data reporting, collection and processing in the DYB system?



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**Thank you.**