

**First Expert Group Meeting on the Revision of the Principles and Recommendations for
Population and Housing Censuses
23-25 May 2023**

Main challenges and lessons learned from 2020 round of censuses

United Nations Statistics Division



**United
Nations**

Department of
Economic and
Social Affairs

Statistics Division

Demographic and Social Statistics Branch

Demographic Statistics Section



Content

- ❑ 2020 World Programme on Population and Housing Censuses
 - Main duties of UNSD
 - Methodological framework

- ❑ Main challenges and lessons learned
 - Impact of the Covid-19 pandemic
 - Modifications in census procedures to reduce the impact of the pandemic
 - Major quality concerns
 - Increasing dependency on technology
 - Moving towards the use of administrative data sources

- ❑ How to address lessons learned in the revised P&R



**United
Nations**

Department of
Economic and
Social Affairs

Statistics Division

Demographic and Social Statistics Branch

Demographic Statistics Section





2020 World Population and Housing Census Programme

- ❖ UNSD has been implementing the World Population and Housing Census Programme for over six decades

- ❖ Main roles of UNSD (as Secretariat of the World Programme):
 - Producing international standards and recommendations
 - Developing methodological guidelines
 - Continuous monitoring of country practices in census-taking
 - [Monitoring impact of Covid-19 pandemic on implementation of 2020 round of censuses](#)
 - Conducting capacity-building activities
 - Annual reporting on the global programme to the Statistical Commission



**United
Nations**

Department of
Economic and
Social Affairs

Statistics Division
Demographic and Social Statistics Branch



Methodological framework for PHC

Principles and Recommendations for Population and Housing Censuses, Revision 3
(2015)

Handbook on Management of Population and Housing Censuses, Revision 2
(2016)

Technical Report on Post Enumeration Surveys (2010)

Handbook on GIS in support of Census Activities (2009)
(needs to be updated)

Handbook on Measuring Economic Activity (2010)
Revised under E-learning course

Handbook on Measuring International Migration through censuses (2017)
NEW

Guidelines on the Use of Electronic Data Collection Technologies in Population and Housing Censuses (2019)
NEW

Handbook on Editing for Population and Housing Censuses, Revision 2 (2019)
REVISED

Technical Report on Measuring SDG Indicators through Population and Housing Censuses and Civil Registration Data (2021)
NEW

Handbook on Registers-based Population and Housing Censuses (2022)
NEW



United Nations

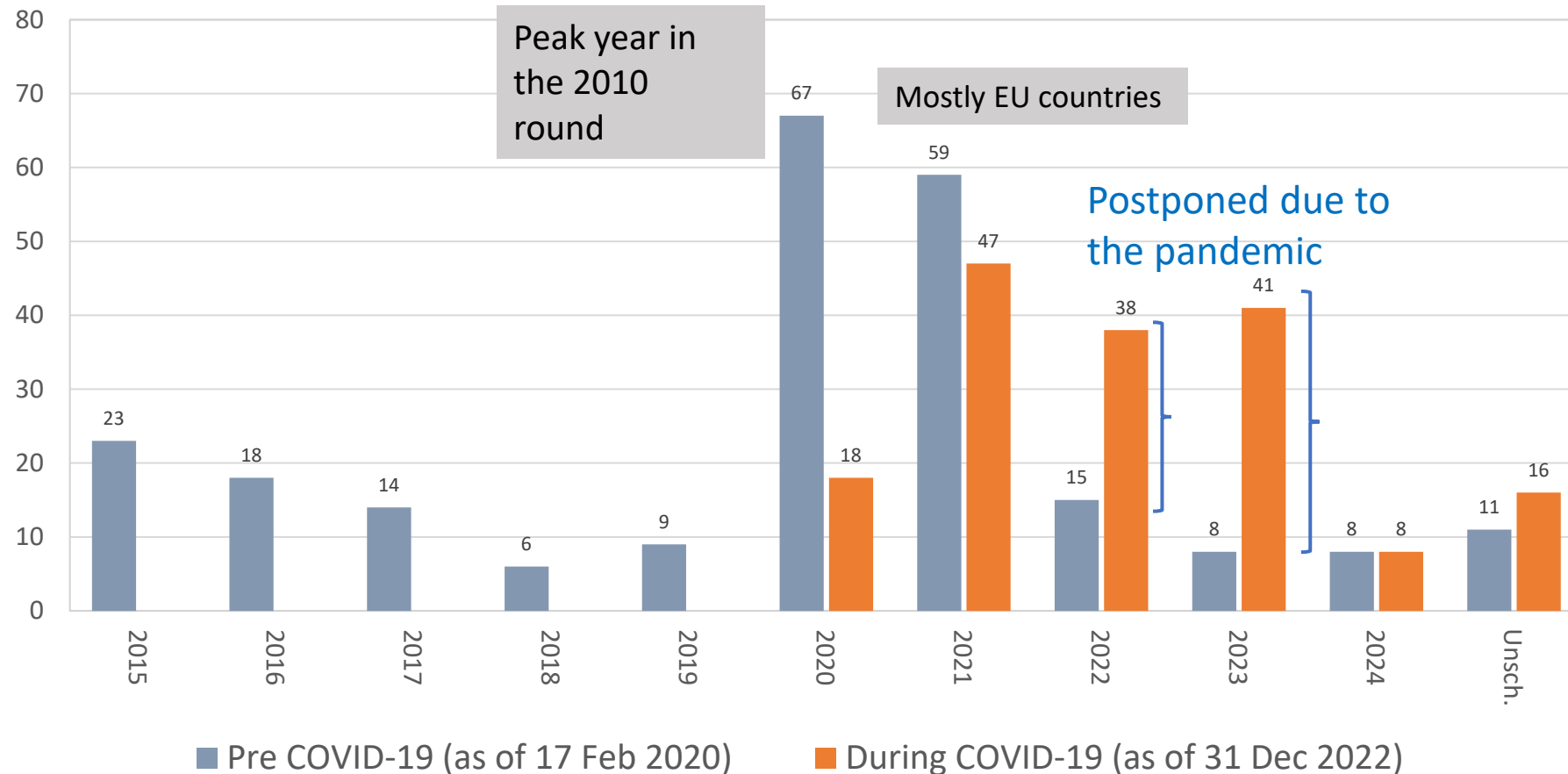
Department of Economic and Social Affairs

Statistics Division
Demographic and Social Statistics Branch
Demographic Statistics Section



How the COVID-19 pandemic conditions affected census schedule?

2020 round census schedule (2015-2024)



Delays in census-taking around year 2020 and 2021
PERIODICITY ?



United Nations

Department of Economic and Social Affairs

Statistics Division
Demographic and Social Statistics Branch
Demographic Statistics Section



Modifications in census procedures to reduce the impact of the pandemic

- Extending the duration of enumeration (more than six months) to improve coverage –**SIMULTANEITY ?**
 - Reducing direct contact with respondents – **COVERAGE/NON-RESPONSE ?**
 - Managing multi-mode data collection –**COVERAGE?**
- Change of the place of usual residence during the pandemic and the effect of the pandemic conditions on census measures –**COMPARABILITY?**

Source: UNSD three EGMs on the impact of the Covid-19 pandemic on the implementation of population and housing censuses and quality concerns



**United
Nations**

Department of
Economic and
Social Affairs

Statistics Division

Demographic and Social Statistics Branch

Demographic Statistics Section



Rising costs and increasing coverage error

- ❑ Rising cost is the biggest challenge
 - Increasing number of field staff as a result of population increase
 - Modernisation of census processes

- ❑ Coverage of the enumerated population is primary concern
 - Reluctant to participate in enumeration
 - Response burden
 - Unsecure areas
 - Hard to contact (ex. gated communities or homeless)



**United
Nations**

Department of
Economic and
Social Affairs

Statistics Division

Demographic and Social Statistics Branch

Demographic Statistics Section

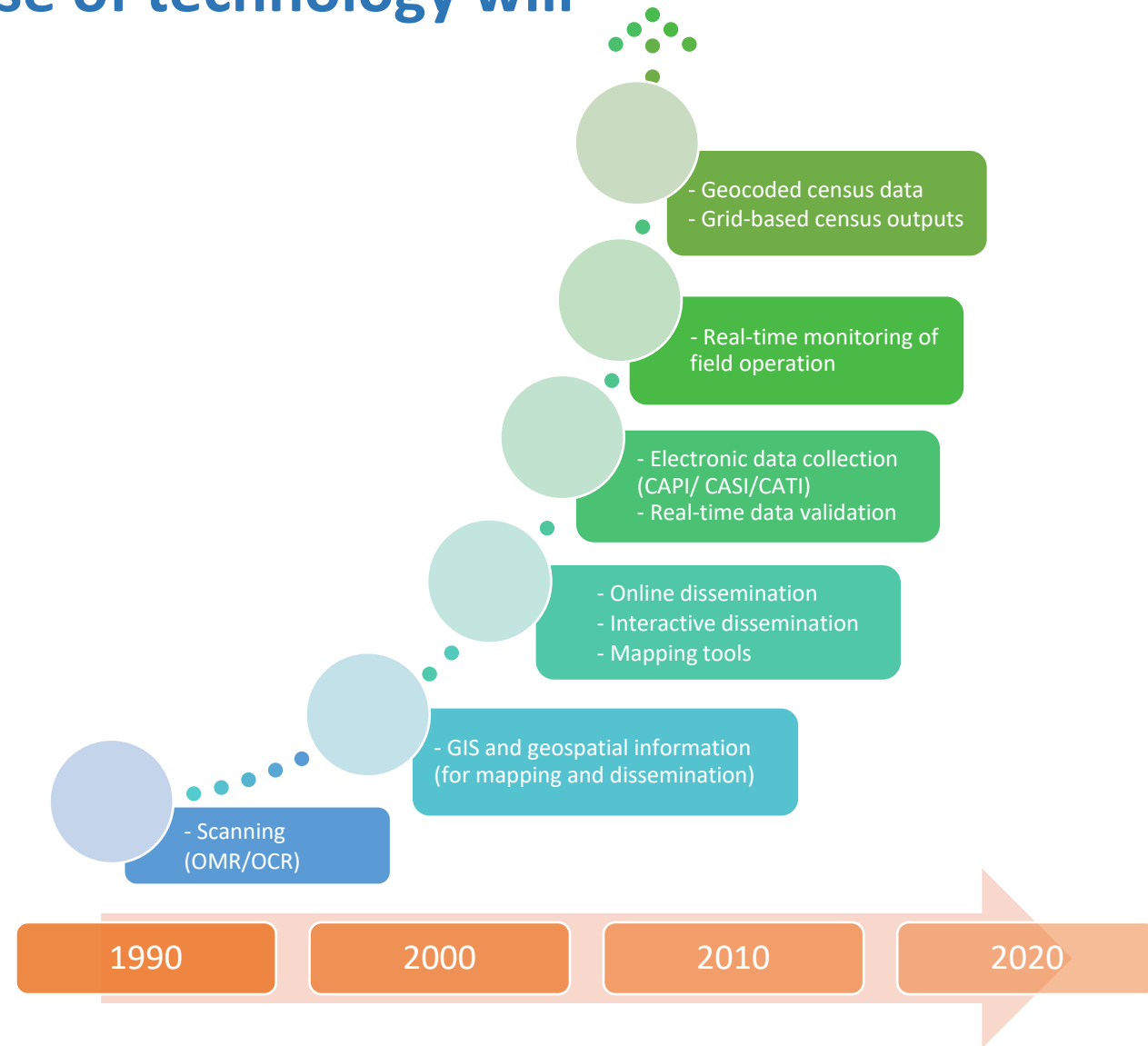


Increasing dependence on the use of technology will continue

- ❖ Mapping
- ❖ Data collection
- ❖ Management and monitoring of field operations
- ❖ Dissemination

Impact of technology on quality of census results:

- Improved accuracy of data
- Improved timeliness of census results
- Enhanced dissemination and accessibility of data
 - Online dissemination
 - Interactive databases
 - Mapping tools



United Nations

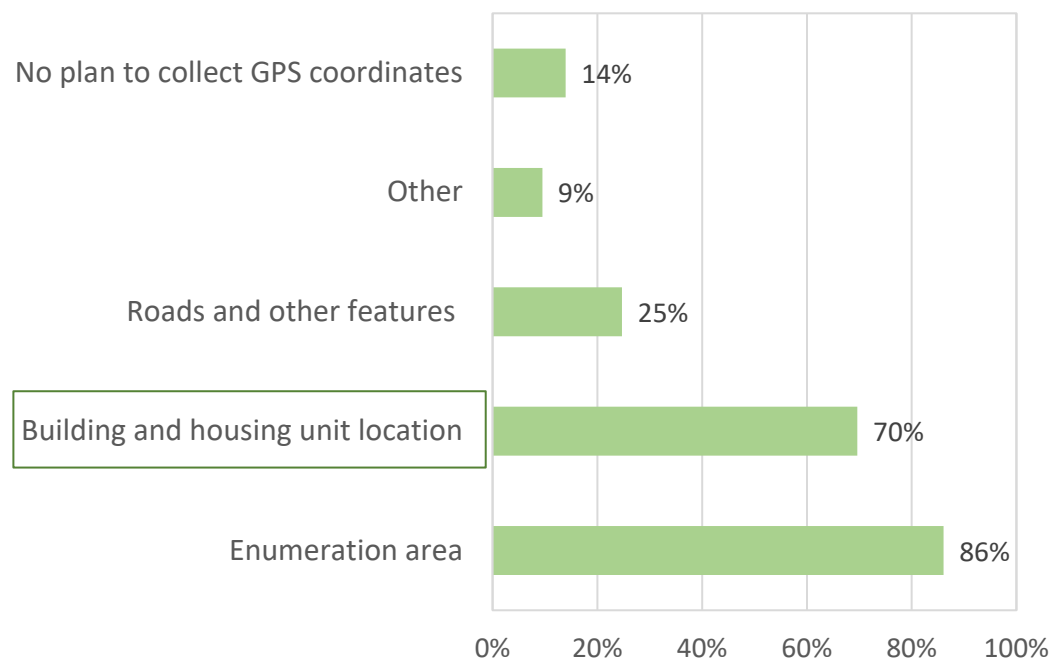
Department of
Economic and
Social Affairs

Statistics Division
Demographic and Social Statistics Branch
Demographic Statistics Section

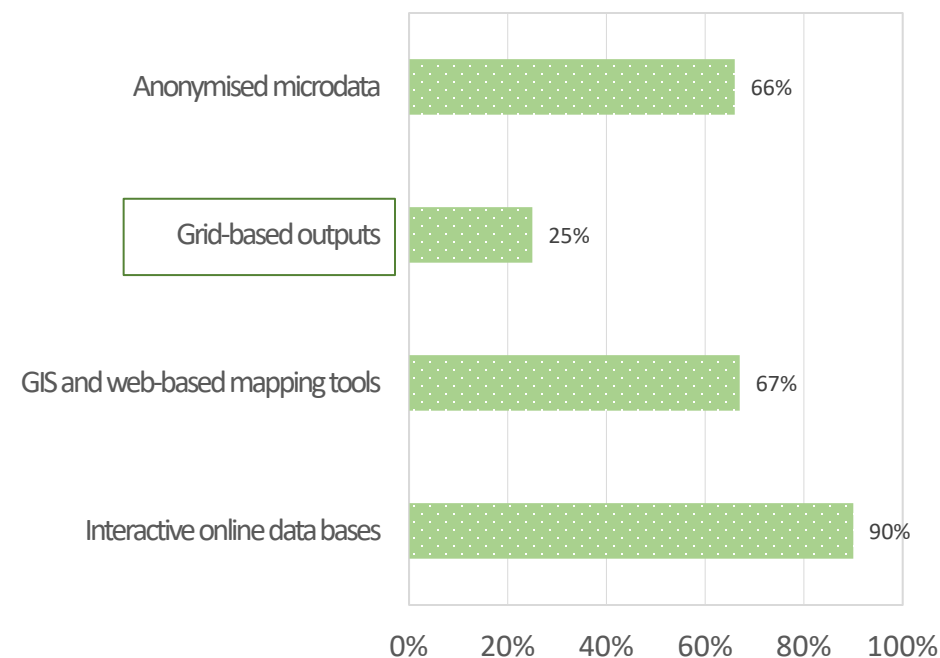


Integration of geospatial information with census data

Proportion of countries that collected or planned to collect geographic coordinates (%)



Proportion of countries that developed or planned to develop specific dissemination tools (%)



Source: UNSD survey conducted in 2019 (138 responses)



United Nations

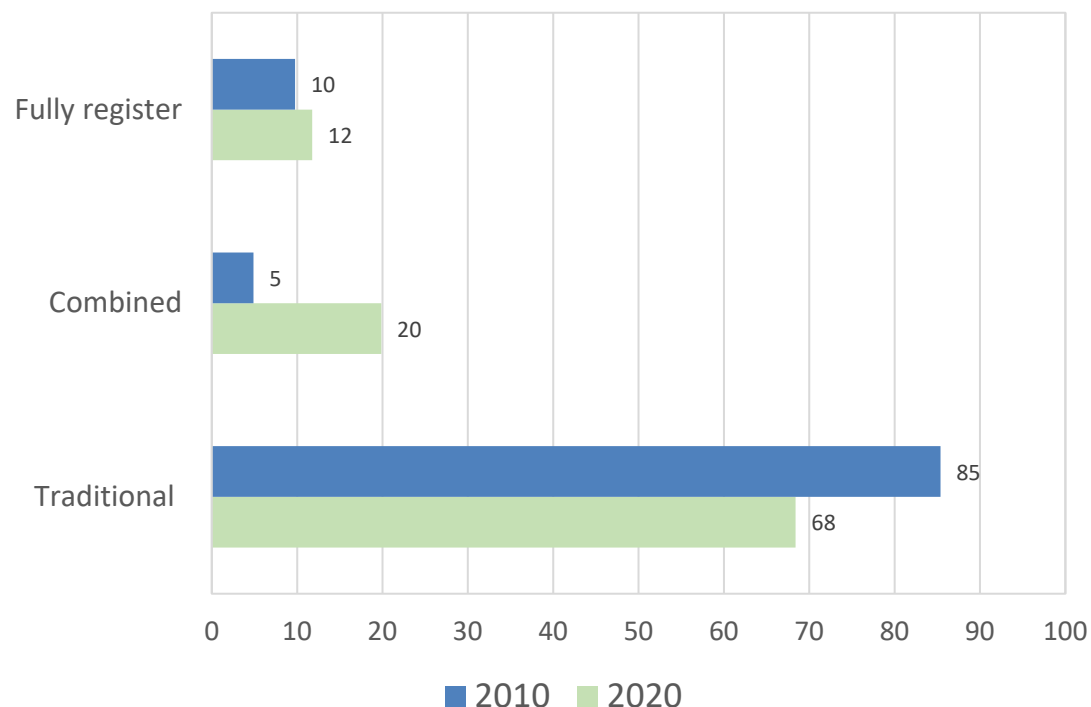
Department of
Economic and
Social Affairs

Statistics Division
Demographic and Social Statistics Branch
Demographic Statistics Section



Moving to register-based approaches?

Proportion of countries by census methodology (%)
(2010 and 2020 census rounds)



- A growing number of countries plan to change census methodology from the traditional to other approaches involving the use of administrative data sources, mainly because of:
 - high costs
 - increasing non-response
 - request for more timely information
- Significant progress observed in terms of:
 - coverage of birth and death registers
 - providing legal identity for all

Sources: UNSD surveys conducted in 2013 (126 responses) and 2022 (137 responses)



United Nations

Department of
Economic and
Social Affairs

Statistics Division
Demographic and Social Statistics Branch
Demographic Statistics Section



Lessons learned to be addressed in the 2030 revision of P&R

- **Provision of guidance on how to gradually move to register-based approaches**
 - Assessing the quality of existing administrative registers
 - Developing a roadmap for the transition process
 - Using administrative data to support the traditional census (eg. census frame, imputation, quality assessment)
 - Integrating population register with civil registration and legal identity

- **Integration of geospatial information with census data, including for enhancing data analysis:**
 - Calculation of some SDG indicators with a spatial aspect (e.g. 9.1.1, 11.2.1, 11.3.1, 11.7.1, etc.)
 - Adoption of new definition of urbanization and degree of urbanization
 - Production of grid-base (1km) census outputs



**United
Nations**

Department of
Economic and
Social Affairs

Statistics Division

Demographic and Social Statistics Branch

Demographic Statistics Section



Lessons learned to be addressed in the 2030 revision of P&R

- Development of **emergency and contingency plans**, and risk management
 - guidance on emergency preparedness in the light of experience gained during the worldwide Covid-19 pandemic
- Adoption of **online questionnaire** where relevant
 - online self-response option to improve response rate
- **Revisiting existing definitions** of population and census methodologies
 - what extent existing definitions are feasible for censuses conducted with the use of administrative data sources
 - whether population **estimation methods** can be introduced for censuses which are not able to cover specific geographic areas, as a result of natural disaster or security reason or any other reason
- Discussion on **potential use of mobile positioning data** or any other data sources that could be used to support population and housing censuses, such as for:
 - Producing population estimates for areas that are not covered in the field enumeration
 - Validation of the quality of census data



**United
Nations**

Department of
Economic and
Social Affairs

Statistics Division

Demographic and Social Statistics Branch

Demographic Statistics Section

