



---

**United Nations Economic Commission for Europe  
Statistical Division**

***Conference “Towards the 2021 Census”  
Belgrade, 22-23 May 2018***

**From the 2010 to the 2020 census round:  
Innovations in methodology and technology  
in the UNECE region**

***Paolo Valente***

***UNECE Statistical Division***

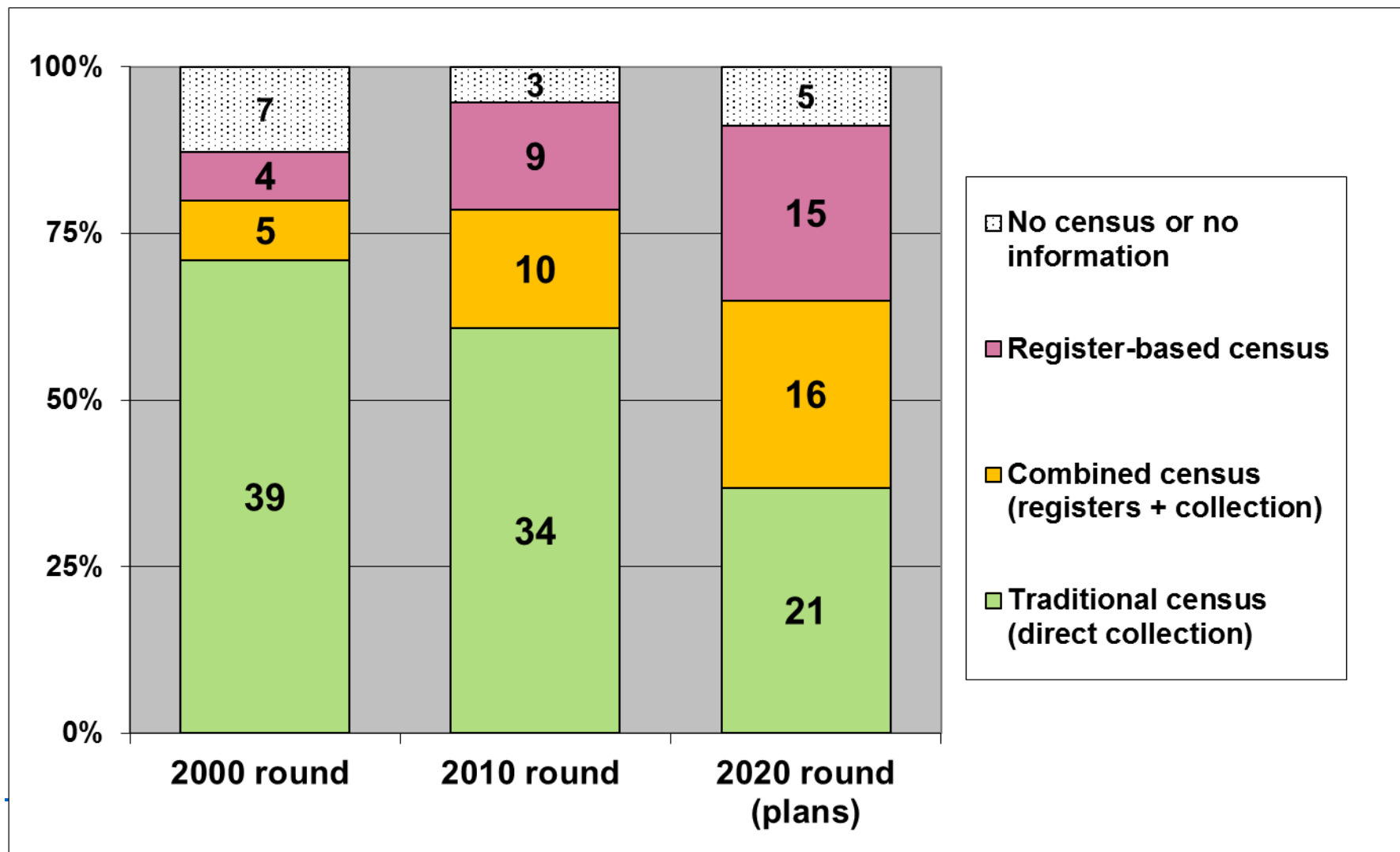
---

# Census methods - definitions

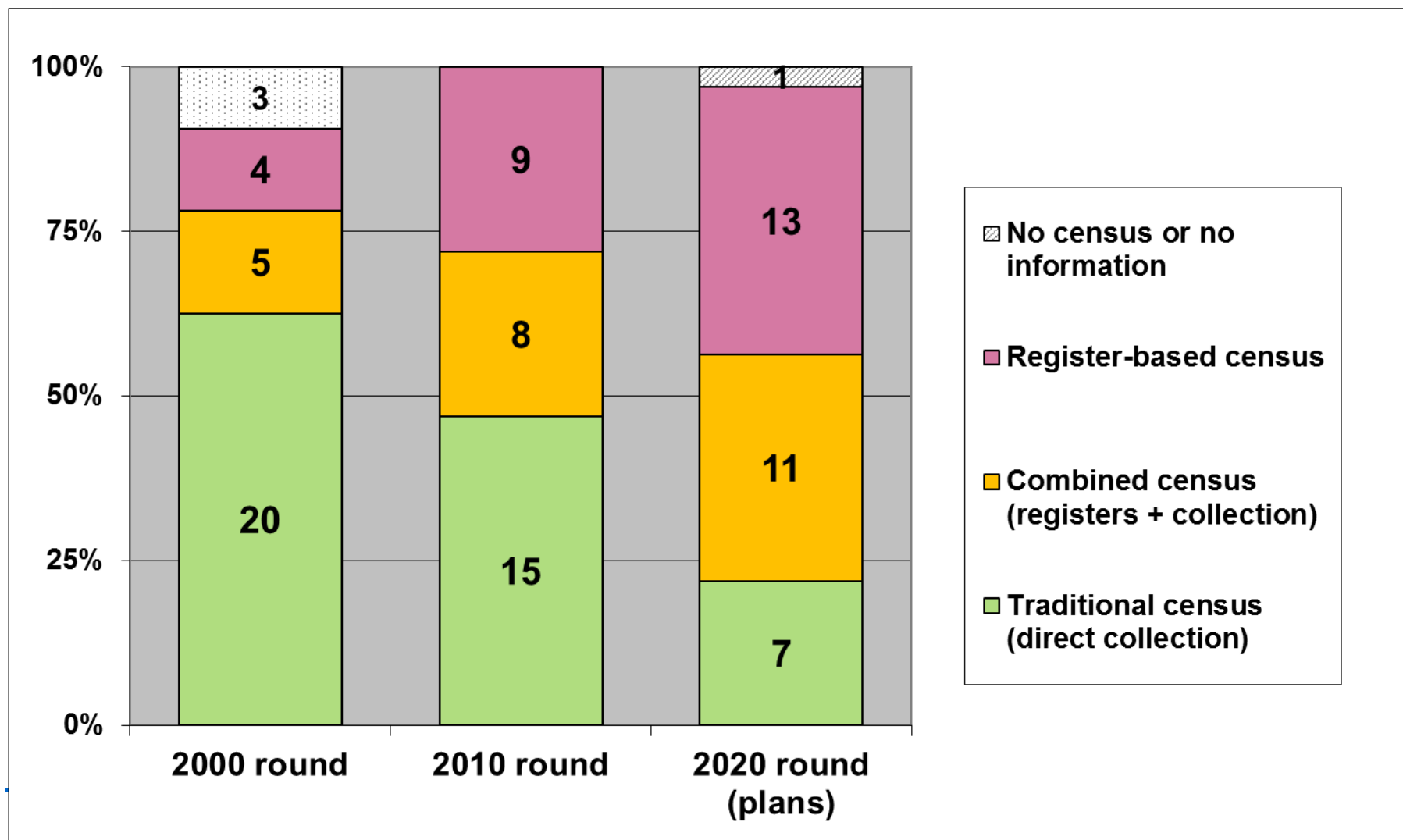
- ❖ **Traditional**: Full field enumeration with paper or electronic questionnaires, and/or internet response (includes rolling census)
- ❖ **Combined**: Data partly taken from administrative registers + limited field data collection
- ❖ **Register-based**: Data taken from administrative registers (and possibly from existing surveys) – No field data collection



# Number of UNECE countries by census method 2000, 2010, 2020 (plans) census rounds

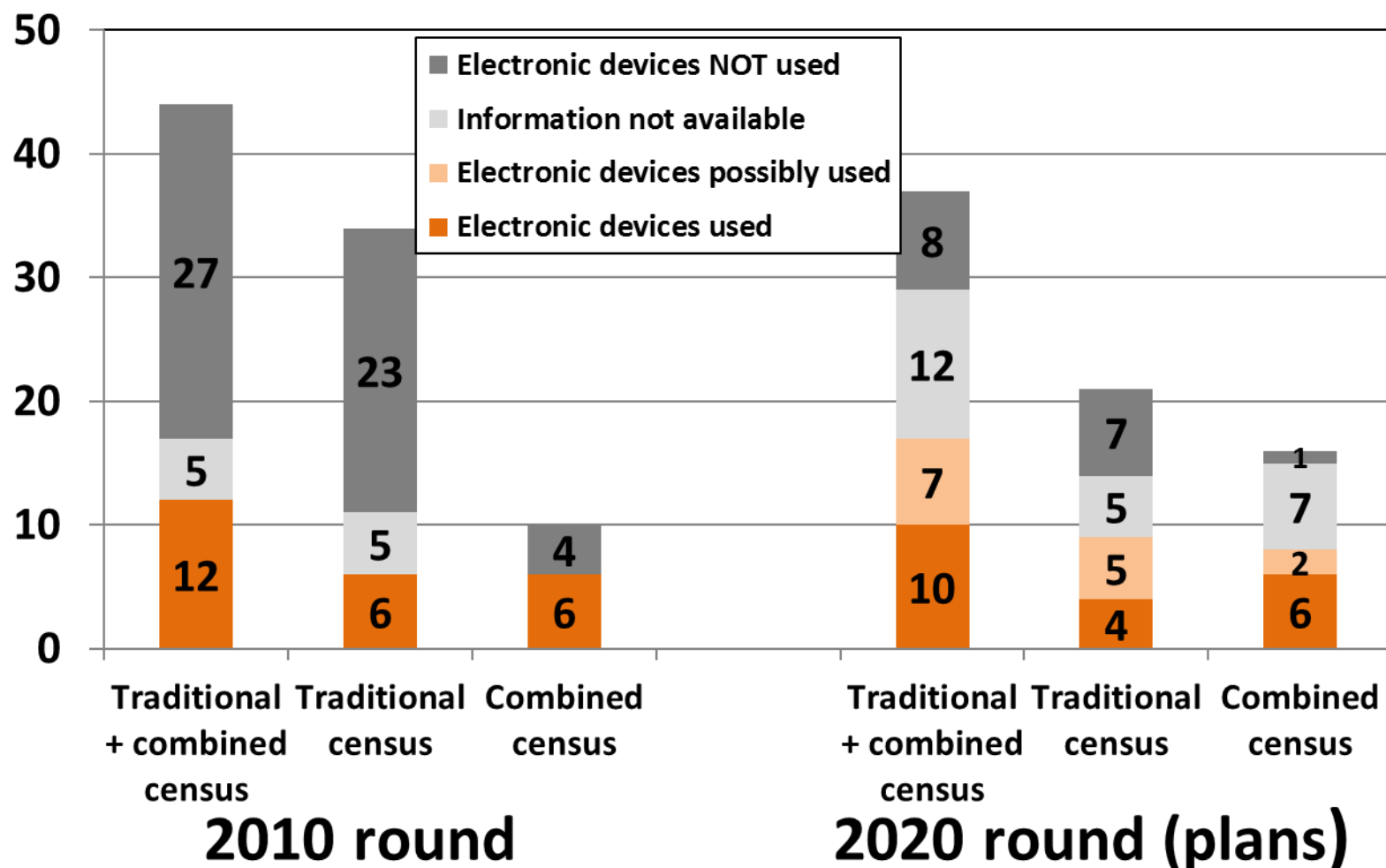


# Number of **EU+EFTA** countries by census method 2000, 2010, 2020 (plans) census rounds



# Technology: Electronic devices

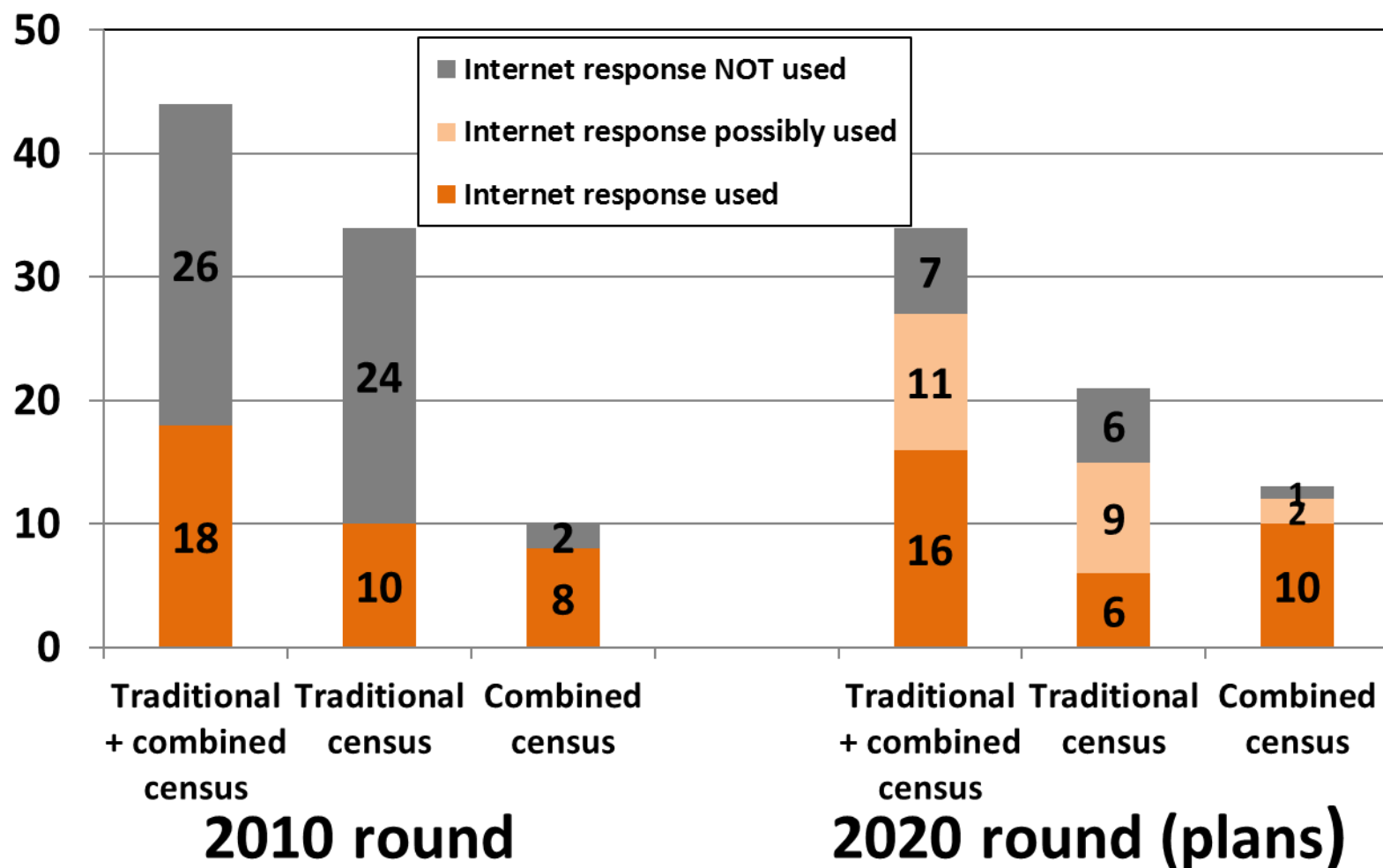
Number of UNECE countries using devices (laptop, tablet, hand-held devices, smartphones) for data collection





# Technology: Internet response

## Number of UNECE countries using internet response

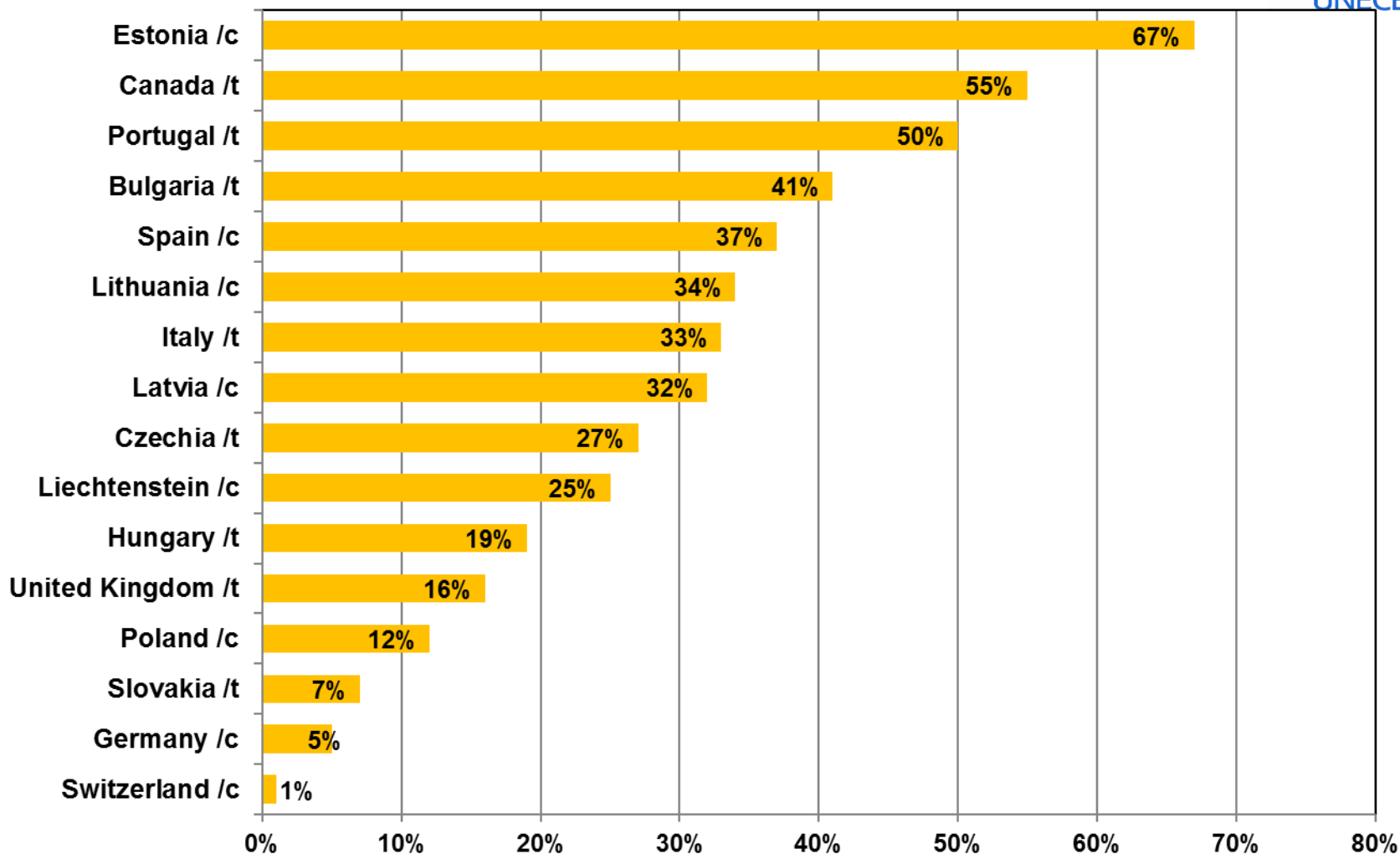


# Internet response

## Take-up rates in UNECE countries, 2010 round



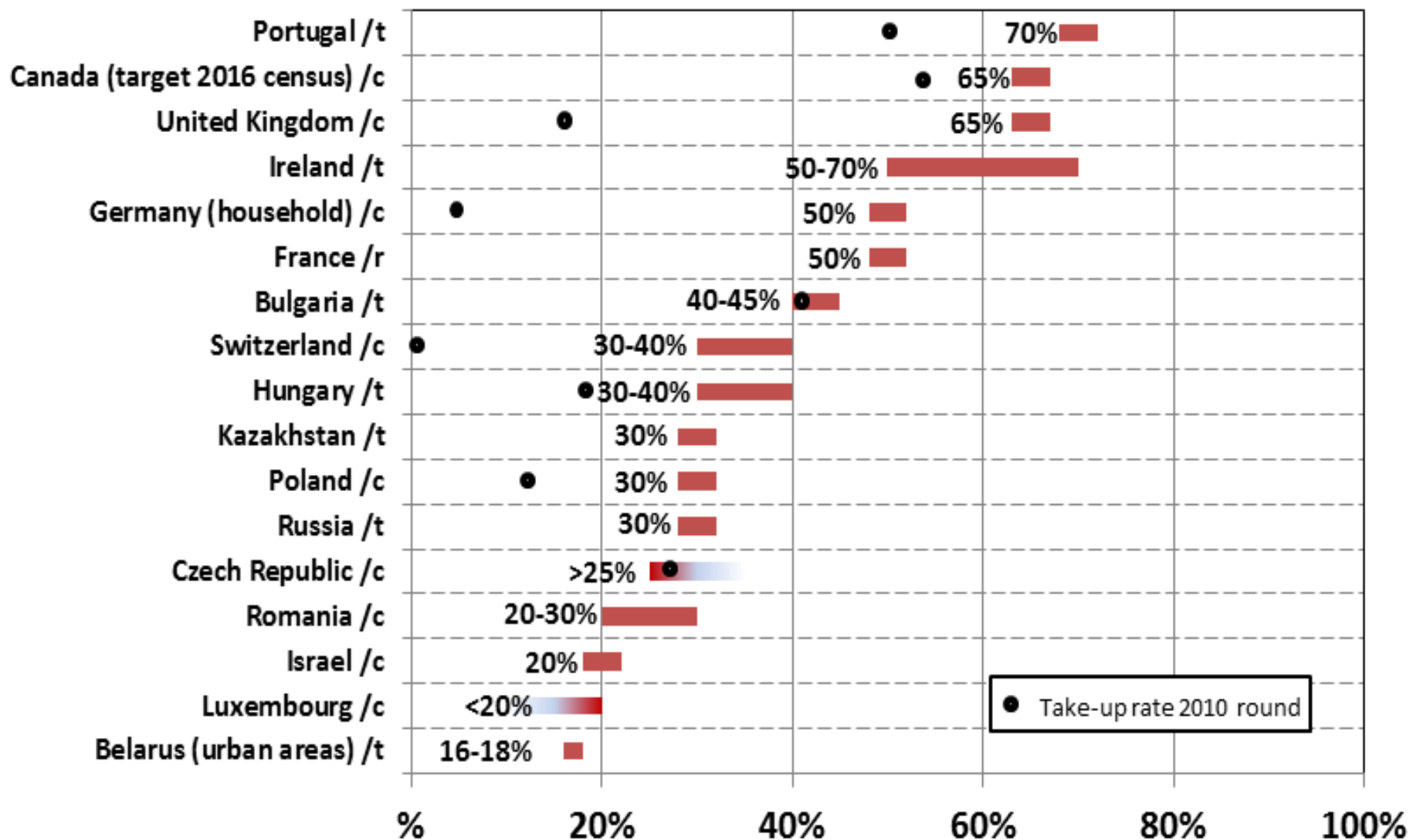
UNECE





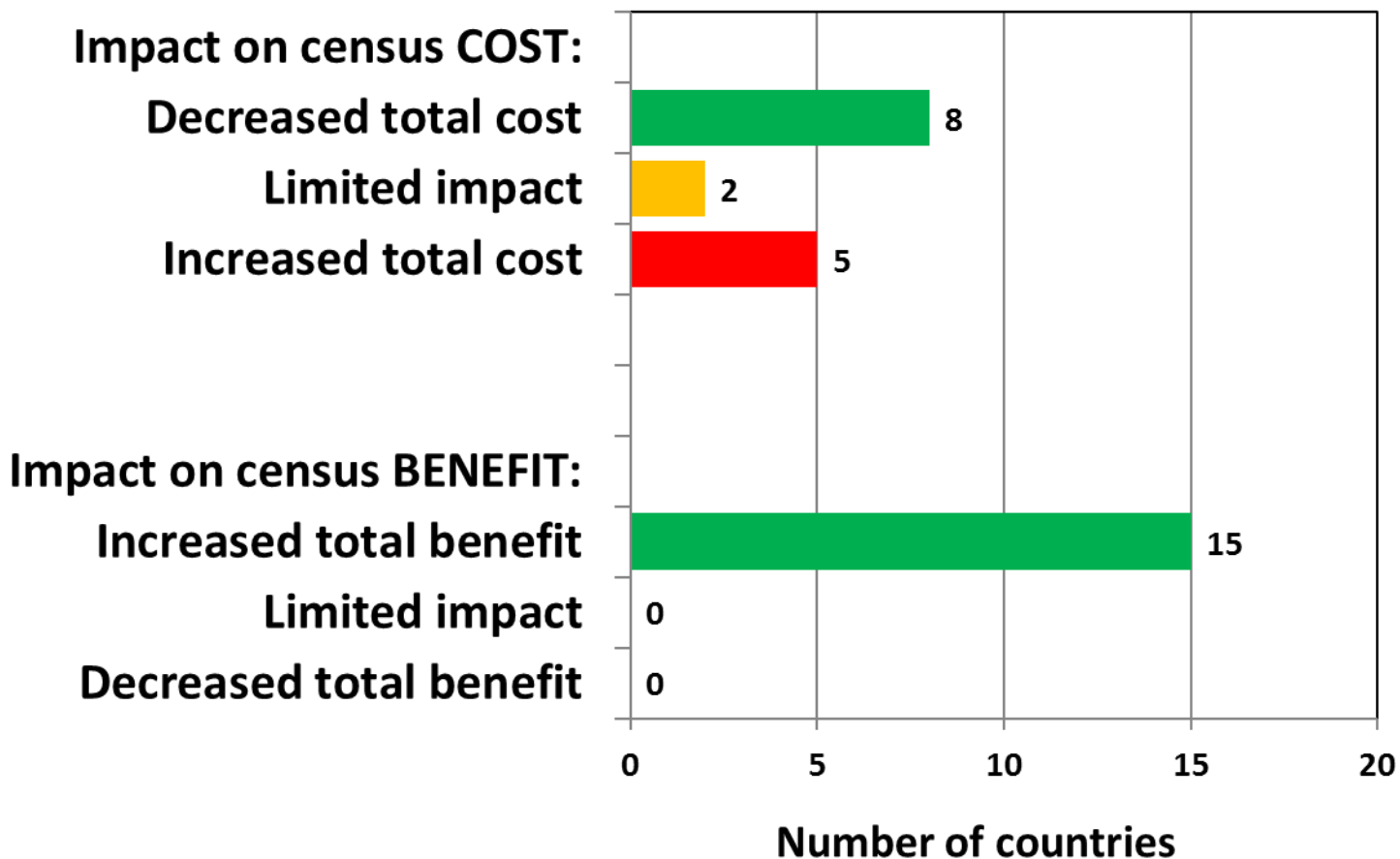
# Internet response

## Assumptions about take-up rates, 2020 round



# Internet response

## Impact on total census cost and benefit – 2010 round

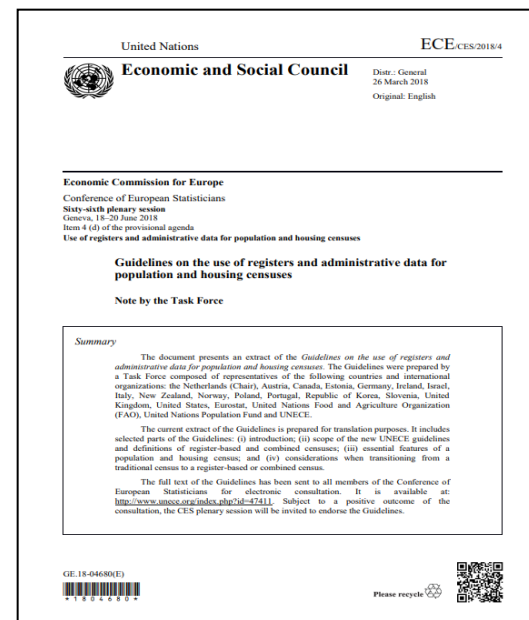
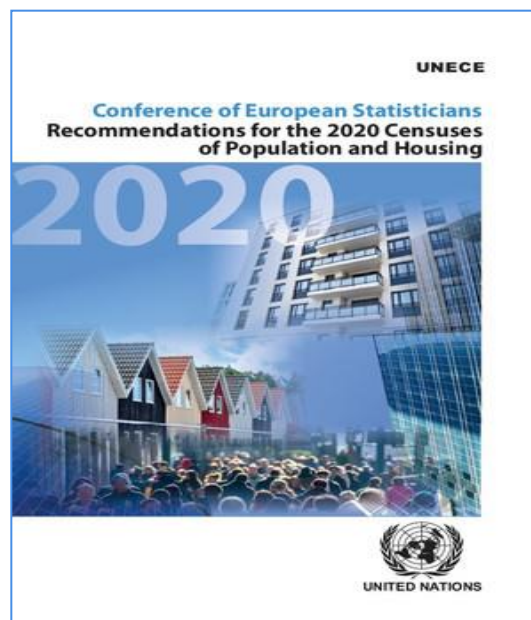


---

# Final comments

- ❖ Countries increasingly adopt **alternative census methods and new technology**, to reduce costs, increase efficiency and provide more frequent and better quality results
- ❖ Innovations do not always result in cost savings, and **may carry some risks!**
- ❖ All innovations must be **carefully evaluated and tested well in advance**, to minimize the risks

# UNECE census publications and reports



## Conference of European Statisticians Recommendations for 2020 Censuses of Population and Housing

Available at:

<http://www.unece.org/stats/census.html>

## NEW draft Guidelines on the use of registers and administrative data for censuses

To be reviewed at June 2018 CES Plenary session

→ **NEW UNECE Task Force on measuring quality of admin sources for use in censuses**



# UNECE Census Wiki

- Tables on 2010 & 2020 round of censuses in UNECE countries:
  - Census dates
  - Methodology /
  - Use of internet / electronic devices
  - Questionnaires (PDF)
  - Technical papers and reports
  - Link to national census website
- Collection of papers on census methodology and transitions to new methods

Country	Census ref. date	Type of census	Census forms	Technical papers and reports	Link to census website
Albania	01-Oct-2011	Traditional	General form	Preliminary results	English website
Armenia	12-Oct-2011	Traditional	General form (English translation)		English website Russian website
Austria	31-Oct-2011	Register-based	(no form used)		English website "Population census" English website "Register-based census"
Azerbaijan	13-Apr-2009	Traditional	Individual form (Azeri) Dwelling form (Azeri)	Planning and organization (in Russian)	
Belarus	14-Oct-2009	Traditional	Individual form Household form	Publication on organization and methodology (in Russian)	English website Russian website
Belgium	01-Jan-2011	Register-based	(no form used)		English website
Bosnia and Herzegovina	01-Apr-2013	Traditional	Individual form (draft from 2010 pilot census) Household/dwelling form (draft from 2010 pilot census)		English website
Bulgaria	10-Mar-2011	Traditional	General form	Final data	English website
Country	Census ref. date	Type of census	Census forms	Technical papers and reports	Link to census website
Canada	10-May-2011	Traditional	General form	Methodological information	English website
Croatia	31-Mar-2011	Traditional	Individual form Household form		English website
Cyprus	01-Oct-2011	Traditional	General form		English website
Czech Republic	26-Mar-2011	Combined (registers + enumeration)	Individual form Dwelling form Building form	How the census is run	English website
Denmark	01-Jan-2011	Register-based	(no form used)		
Estonia	31-Dec-2011	Combined (registers + enumeration)	Individual form Household form	How the census is conducted	English website
Finland	31-Dec-2010	Register-based	(no form used)		English website
France	01-Jan-2011	Rolling census	Individual form (2008 in French)	Pour comprendre le recensement (in French)	French website

Accessible from <http://www.unece.org/stats/census.html> or by Google:



UNECE census wiki