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**Population Census** 

# Simultaneous Enumeration in the field of ALL individuals and THEIR characteristics

**Traditional Census** 

#### From ....

Simultaneous enumeration in the field of ALL individuals and **their** characteristics

#### TO....

Simultaneous enumeration in the field of all individuals and of the characteristics of **a sample** of individuals

Long/Short form (Canada, US, Israel)

# Long/Short Form

Main Advantages

- Lessen the burden of respondents
- Lessen the burden in data processing

#### Main Disadvantages

- Can complicate the field operations
- Less geographical and sub-population details for some of the characteristics

#### From ....

Simultaneous Enumeration in the field of ALL individuals and THEIR characteristics

#### TO....

Simultaneous Enumeration of all individuals and their characteristics through administrative registers

**Register-based census ("Nordic countries")** 

## **Register-based census**

#### Main Advantages

- Lessen the burden of respondents
- Cheap if cost of register maintenance is not considered
- High frequency

#### Main Disadvantages

- It relies on the coverage of registers
- It relies on an administrative process
- Not all characteristics can be collected through registers

#### From ....

Simultaneous Enumeration in the field of ALL individuals and THEIR characteristics

#### TO....

Simultaneous Enumeration through the registers and the field of all individuals and the characteristics of all individuals

Combined approach registers-full enumeration (Belgium, Latvia, Slovenia, Spain, Switzerland)

#### **Combined approach registers-full enumeration**

#### Main Advantages

- Better coverage
- Improved precision
- Reduce burden of respondents

#### Main Disadvantages

- It depends on the quality coverage of registers
- Expensive

#### From ....

Simultaneous Enumeration in the field of ALL individuals and THEIR characteristics

#### то....

Simultaneous Enumeration of all individuals through the registers and the characteristics of a sample of individuals

Combined approach registers-existing surveys (The Netherlands)

#### **Combined approach registers-existing surveys**

#### Main Advantages

- Cheap if the costs of registers maintenance is not considered
- Reduce burden of respondents (it does not require new data collection)

#### Main Disadvantages

- Less details for geographical/subpopulation groups for some characteristics
- Lack of transparency (results can not be reproduced)
- Weighting issues

#### From ....

Simultaneous Enumeration in the field of ALL individuals and THEIR characteristics

#### TO....

Simultaneous Enumeration of all individuals and their characteristics through the registers and corrected with the enumeration of individuals and characteristics of a sample of individuals

Combined approach registers-ad-hoc survey (Israel)

#### Combined approach registers-ad-hoc survey

#### Main Advantages

- Cheaper than traditional census
- Improve the coverage of a register-based census

#### Main Disadvantages

- Still under study
- Assume that the inconsistency of the population register are due only to internal migration

#### From ....

Simultaneous Enumeration in the field of ALL individuals and THEIR characteristics

#### то....

Enumeration of all individuals in the field and **annual** updates of characteristics on a **sample** basis

Traditional enumeration with yearly updates of characteristics (U.S.A.)

# Traditional enumeration with yearly updates of characteristics

#### Main Advantages

- Improved frequency and relevance of the data
- More attention to the full enumeration of the population

#### Main Disadvantages

- More complicated to manage
- Difficult to explain to users the "moving averages"

#### From ....

Simultaneous Enumeration in the field of ALL individuals and THEIR characteristics

#### TO....

Enumeration of a **sample** of individuals in the field and their characteristics on a **rotation basis** 

Rolling Census (France)

#### **Rolling census**

Main Advantages

- Improved frequency and relevance of the data
- Reduced burden of respondents
- Flat budget

#### Main Disadvantages

- No snapshot of the whole population
- Complicated comparison among geographical areas due to different enumeration times

# Census methodology: countries' practices and future plans in ECE

Census Methodology	2000	2010
Traditional	35 (80%)	22 (51%)
Register-based	3 (7%)	7 (16%)
Register-based + full enum.	5 (11%)	4 (9%)
Register-based+surveys	1 (2%)	8 (19%)
Traditional+yearly updates	-	1 (2%)
Rolling	-	1 (2%)
Total number of countries	44	43

# Dilemma in the ECE Region

#### What is a census after all?

What are the features that distinguish a census from a large sample survey?

# Dilemma in the ECE Region

......

**Does it matter?** 

#### Yes, it is important to give a definition of census Classical approach, focus on the method: CES approach, focus on the

- 1. Individual enumeration
- 2. Simultaneity
- 3. Universality
- 4. Defined periodicity

- 1. Individual enumeration
- 2. Simultaneity → same reference period
- Universality → data collected on total population, with coverage check
- 4. Defined periodicity
- 5. Small-area data

### ...And more important...

It is to give quality standards

- coverage check
- small areas and small sub-populations data

# tatist JNE

## How to change

# Can every country move away from a traditional census?

No! Certain conditions are necessary

## Conditions to change

#### To move to a rolling-type of census

- Agreement of national stakeholders to move from snapshot-type of data to annually updated multi-year products
- $\checkmark$  High level of professional staff on a continual basis
- ✓ Updated master address file

# Conditions to change

#### To better use administrative sources

- ✓ Existence of population register and other registers
- ✓ The coverage of the population register should be enough to consider it as a starting point
- $\checkmark$  Existence of a PIN or experience in linking records
- ✓ Legislation (sharing records and protect them)
- ✓ Culture of acceptance

# Field enumeration: A variety of methods in 2000

	Т	ype of pop	ulation cens	sus:	
	Traditional	Registers	Registers	Data from	
Main enumeration	census	plus	plus exist.	registers	
method:	(fieldwork)	fieldwork	survey data	only	
Interviewer,	21	<b>2</b> (Latvia,			23
paper questionnaire		Slovenia)			
Self-compiled form,	9	<b>1</b> (Spain)			10
delivered and					
collected by enum.					
Self-compiled form,	<b>3</b> (France,				3
delivered by enum.	Canada, UK)				
and mailed back					
Self-compiled form,	<b>1</b> (Malta)				1
mailed-out,					
collected by enum.					
Self-compiled form,	<b>1</b> (USA)	<b>2</b> (Belgium,			3
mail-out, mail-back		Switzerland)			
Enumeration based on			1	<b>3</b> (Denmark,	4
registers (no forms)			(Netherlands)	Finland, Norway)	
	35	5	1	3	44

# Expected Changes in the enumeration methods from 2000 to 2010

Type of enumeration		Population censuses			
			2000, ranked importance		
		1	2	3 or lower	
Interviewer:	Paper form	22	2	0	19
	Electronic form	0	0	1	8
Enumerator:	Self-completed form collected	9	4	0	12
	Self-completed form mailed back	3	0	2	6
Mail-out:	Collected by enumerator	1	2	0	3
	Mail-back	2	0	1	6
Internet		0	1	1	9
Enumeration	based on registers	5	0	0	12

# CES Recommendations for the 2010 Censuses of Population and Housing

# Purpose of the recommendations:

- 1. To provide guidance and assistance to CES countries in the planning and conducting of their population and housing census
- 2. To improve the comparability of the data through the selection of a core set of census topics and the harmonization of definitions and classifications.

# Mandate and history

- Preparation of the Recommendations requested by the Conference of European Statisticians (CES)
- First regional recommendations adopted by CES in 1959 for the censuses of the 1960 round
- Other regional recommendations prepared for 1970, 1980, 1990 and 2000 census rounds
- → The CES Recommendations for the 2010 censuses mark the 50<sup>th</sup> anniversary of the regional recommendations

# Process for the preparation of the new recommendations:

- Work promoted by UNECE in cooperation with Eurostat
- Overall coordination by the Steering Group on Population and Housing Censuses (membership: 12 countries + ECE and Eurostat)
- Text of the different chapters drafted by **11 Task Forces**,
- In total, about <u>100 experts</u> contributed, from <u>30 NSIs</u> and <u>9 International Organisations</u>
- Work conducted through meetings of the Task Forces, as well as by email, teleconferences and audioconferences

# The ECE questionnaire on Census practices and programs

#### General section:

- methodology
- technology
- organization
- cost
- use of census data
- plans for 2010 Census

#### Specialized section:

- Usual residence & population counts
- International migration
- Families and households

## The Task Forces

- 1. Census Methodology (USA)
- 2. Census Technology (Australia)
- 3. Geographical characteristics (Ireland)
- 4. Demographic characteristics (Hungary)
- 5. Migration and Ethno-cultural characteristics (Switzerland)
- 6. Economic characteristics (ILO)
- 7. Education characteristics (United Kingdom)
- 8. Disability (Washington Group)
- 9. Families and Households (Norway)
- 10. Agriculture (FAO)
- 11. Housing (United Kingdom)

# Timeline:

Jan. 2004:

March 2004:

→ Oct. 2004:

04: <u>Analysis of results</u> by ECE Secretariat and experts, and preparation of various reports

data on 2000 census and plans for 2010

First meeting of the Steering Group, definition of

Questionnaires sent out to ECE countries to collect

work plan and identification of "critical" areas

Nov. 2004: Joint ECE-Eurostat Work Session to discuss general directions for the new recommendations

 $\rightarrow$  May 2005: Preparation of the <u>first draft</u> of the new rec.

Dec. 2005: Joint ECE-Eurostat Work Session to discuss the draft text of the new recommendations

 $\rightarrow$  March 2006: Preparation of the <u>final version</u> of the new rec. June 2006: Approval of the new recommendations by the CES



# Two parallel processes



# Lessons learnt

- Ensure and solicitate broad participation: crucial for developing and implementing the Census Rec. (ownership)
- Set up a 'reasonable' amount of Task Forces, trade-off between participation and efficiency, and follow their work closely
- Involve census experts as well as 'substantive' experts, possibly consult with data users
- Allow time and resources for editing and translation

# The content of the CES Rec.

- I. Census methodology and technology
- II. Population topics
- III. Housing topics
- IV. Appendices

# Census methodology and technology

- Great variety of approches across the region: need to assess requirements and pros/cons of all census types
- Purpose of this section is not to recommend a specific approach but rather to inform and guide countries



# Substantive topics: the approch

- Describe the issues: develop the conceptual framework and related definitions
- List topics necessary to collect information
  - Core topics: highly recommended for inclusion
  - Non-core topics: suggested topics for interested countries

# Highlights on the topics

- Place of usual residence:
  - 12 months rule
  - The concept of "intention to stay" was introduced in the definition
  - Third level students living away from home while studying are counted at the term-time address
- Total population:
  - Include ALL persons who meet the criteria to be considered as usual resident, regardless of the legal status

 $\rightarrow$  Include undocumented migrants, asylum seekers, etc.

# Population topics (cont.)

- International and internal migration:
  - New general framework
  - Definition of relevant population groups
  - 4 core topics to satisfy growing demand for data







# Migration: core topics

- Country/place of birth
- Country of citizenship
- Ever resided abroad and year of arrival in the country
- Previous place of usual residence and date of arrival in the current place

# Population topics (cont.)

- Families and households:
  - New definition of "homeless"
  - Extension of the concept of "family" to include skip generation households
  - Inclusion of same-sex couples
- **Disability** (new topic)
  - Washington approach
- Agriculture (new topic)
  - Own account agriculture production
  - Characteristics of all agriculture jobs during the last year

# Housing topics: highlights

#### New framework



**Core characteristics ONLY for occupied dwellings and other housing units** 

# Appendices: highlights

- Alternative approaches to census taking
- Fundamental principles of official statistics in the framework of the Census
- Quality framework
- Census evaluation
- Publicity and information campaign

# For further information

#### www.unece.org/stats

- Text of the CES Census Recommendations
- Reports and papers of the Work Sessions on Population and Housing Censuses
- *Forthcoming*: Report on countries' practices for the 2000 Census Round