

The 2010 Round of Population and Housing Censuses: Experiences of OIC Member Countries

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Summary

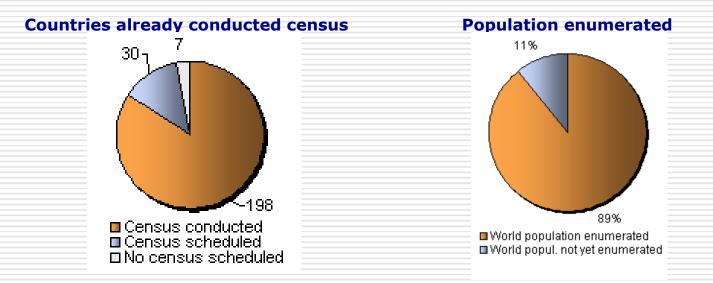
- □ Implementation of 2010 census round
- Country experiences
 - o Census methodology
 - o Enumeration methods
 - o Use of technology
 - o Methods of data dissemination
 - o Collaboration among countries
 - o Successes/achievements
 - o Challenges experienced



Implementation of 2010 census round

As of 1 February 2013

- o 198 countries already conducted census
- Population enumerated = 6.2 billion representing 89% of world population



Implementation of 2010 census round Division (contd.)

- More countries undertaking a census in 2010 round than in 2000 round
 - o 26 did not conduct a census for 2000 round
 - Only 7 countries with no information on plans for 2010 round
 - o 25 countries rescheduled their censuses for 2010 round (20%)
 - Initially, 2010 was peak year for census taking for 2010 round
 - Due to postponements, 2011 became peak for the round
- Reasons for postponement include:
 - o Budgetary constraints
 - o Technical issues
 - o Lack of skilled staff
 - o Political situations

Implementation of 2010 census **round**ivision in OIC Member Countries

- Census conducted 37 countries
- Census planned 15
 - **o** 2013 9 countries
 - o 2014 6 countries
- Staggered census taking Afghanistan (2011-2015)
- No information on census plans 5 countries (Iraq, Lebanon*, Pakistan, Somalia, Uzbekistan)



Surveys on country experiences during 2010 round

- Mid-2011 and early 2012 UNSD and USCB conducted survey on country practices for 2010 censuses
- Objectives of the survey
 - Document early lessons learned from the 2010 round
 - Identify preliminary recommendations for the Statistical Commission to consider as planning begins on the 2020 World Programme on Population and Housing Censuses

2009-2010 UNSD survey



Responses to the surveys

2011/2012 survey

o 126 countries world-wide responded to survey

o 27 OIC Member Countries

2009/2010 survey

o 138 countries world-wide

o 34 OIC Member Countries



Salient findings from surveys

- Changes in how countries conduct censuses
 - Increase in use of alternative methodologies from 2000 round
 - o Use of multiple sources to generate census data
 - o Multi-mode enumeration methods
 - o Increased use of improved technology in all phases of census
 - Implementation of new technologies most cited successful aspect of census
- Reasons for changes:
 - Reduce cost of census
 - Improve quality of data
 - Improve timeliness of dissemination of census results

Main methodology for census

In 2010 census round:

- Full field enumeration still dominant methodology for population and housing censuses
 - Globally: 105 countries (85%)
 - o OIC: 25 countries- (93%)
- Use of alternative methodologies (administrative registers or other methods)
 - o Globally: 18 countries (15%)
 - o OIC: 2 countries (7%)

Application of alternative methods not uniform across countries and needs careful documentation and study



Use of other sources of data

Data source	Total countries		OIC countries	
	No.	%	No.	%
Administrative registers	33	26	4	15
Pre-existing administrative records	11	9	0	0
Annual or other regular surveys	22	17	6	22
Ad hoc sample surveys	19	15	4	15
Other	11	9	2	7



Use of multi-sources of data

Data source	Full field enumeration			Admin. registers & others				
	Total world		OIC countries		Total world		OIC countries	
Administrative registers	26	25	4	16	7	39	0	0
Pre-existing administrative records	7	7	0	0	4	22	0	0
Annual or other regular surveys	17	16	6	24	5	28	0	0
Ad hoc sample surveys	12	11	3	12	7	39	1	50
Other	9	9	2	8	2	11	0	0



Enumeration methods

Enumeration method		/orld	OIC countries	
		%	No.	%
Face-to-face interviewer, paper questionnaire	94	75	24	89
Face-to-face interviewer, electronic questionnaire	14	12	5	19
Telephone	14	11	1	4
Self-enumeration, paper questionnaire, collected by enumerators	30	24	5	19
Self-enumeration, paper questionnaire, return by mail	18	14	0	0
Self-enumeration, internet	33	26	4	15
Register-based enumeration	18	14	1	4
Pre-existing administrative records	8	6	0	0
Other	2	2	0	0
Total countries	126		27	



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Use of technology during 2010 round

Tashnalagyusad	Total v	vorld	OIC countries	
Technology used	No.	%	No.	%
Internet	50	43	12	44
Laptop computers	31	26	7	26
Hand-held/pocket computers	10	9	3	11
Tablet computers	4	3	3	11
Geographical information systems (GIS)	75	64	20	74
Computer-assisted coding	57	49	10	37
Optical mark reading/recognition (OMR)	38	32	4	15
Optical character reading/recognition (OCR)	49	42	5	19
Other imaging techniques and scanner devices	44	38	10	37
Other	25	21	3	11
None of the above	6	5	1	4



Use of technology - Cartography

- Census cartography one of census domains that have benefited the most from technological innovations....In 2010 census round:
 - o 58% use digitized maps
 - ♦ 68% for 34 responding OIC Member Countries
 - o 74% use GPS/GIS
 - 79% for OIC Member Countries
 - o 25% aerial photography
 - 9% for OIC Member Countries
 - o 24% satellite imagery
 - 21% for OIC Member Countries

Source: UNSD survey conducted in 2009-2010



Use of technology (contd.)

Predicted cost or time savings by using new technology

- o Yes: 79 76%
 - ♦ OIC: 18 67%
- o No: 25 24%
 - ◆ OIC: 5 19%

Realized cost or time savings by using new technology
 Yes: 70 - 74%
 OIC: 17 - 63%
 No: 25 - 26%
 OIC: 4 - 15%



Use of technology (contd.)

- Benefits of using new <u>technology</u>
 - o Time savings 62% ~ (OIC: 67%)
 - o Improved data quality 57% ~ (OIC: 67%)
 - o Improved coverage 37% ~ (OIC: 52%)
 - o Cost savings 36% ~ (OIC: 41%)
 - o Increased participation/response rates 23% ~ (OIC: 26%)
- Risks of using new technology
 - o Increased cost − 29% ~ (OIC: 30%)
- Obstacles faced in use of new technology
 - Staff resources/expertise 52% ~ (OIC: 56%)
 - Financial resources 37% ~ (OIC: 30%)



Contracting out use of technology

- Yes: 49% ~ (OIC: 22%)
- □ No: 51% ~ (OIC: 65%)
- Successes about contracting out use of technology
 - o Contract management -42% ~ (OIC: 50%)
 - Staying within scope 51% ~ (OIC: 33%)
 - Adhering to budget 53% ~ (OIC: 33%)
 - Adhering to schedule 55% ~ (OIC: 50%)
 - o Improved census integration 46% ~ (OIC: 50%)
- Challenges of contracting out use of technology
 - o Contract management 29% ~ (OIC: 33%)
 - o Adhering to schedule 25% ~ (OIC: 33%)
 - Adhering to budget 24% ~ (OIC: 17%)



Contracting out use of technology (contd.)

More in-depth analysis of results on previous slide is needed to show successes and challenges by census methodology



Data dissemination – primary method

- Primary method of data dissemination
 - Paper publications
 - 66 -52%
 OIC: 19 70%
 - Static web pages (html, pdf, Excel)
 34 28%
 OIC: 4 15%
 - o Interactive online databases
 - 17 14%
 - OIC: 2 7%



Collaboration among countries

Areas in which collaborated with other countries

Total

- o Data dissemination 27%
- Questionnaire design 21%
- o Alternative methodologies 21%
- New technologies 18%

- o Data dissemination, questionnaire design 37%
- o New technologies 26%
- o Alternative census methodologies 22%
- o Cartography, data collection, data capture, data analysis, PES 19%
- o Data processing 15%



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Successes in 2010 round

- Implemented new technologies
 - o Global: 70 56%
 - **o** OIC: 15 56%
- Met deadlines

 o Global: 62 49%
 o OIC: 11 41%
- Kept within a budget
 o Global: 59 47%
 o OIC: 10 37%

Improved/maintained data quality
 o Global: 58 - 46%
 o OIC: 15 - 56%



Successes in 2010 round (Contd.)

- Improved logistics and coordination
 - o Global: 56 44%
 - o OIC: 15 56%
- Improved data dissemination o Global: 50 - 40%
 - o OIC: 13 48%
- Improved/maintained response/participation rates
 - o Global: 47 37%
 - **o** OIC: 10 37%
- Implemented new methodologies
 o Global: 46 37%
 o OIC: 9 33%



Challenges during 2010 round

Cost

- o Global: 88 70%
- o OIC: 18 67%
- Timeliness o Global: 56 - 44%
 - o OIC: 13 48%
- Data quality
 o Global: 43 42%
 o OIC: 10 37%



Challenges during 2010 round (Contd.)

- Public perception
 - o Global: 46 37%
 - o OIC: 8 30%
- Response rates
 o Global: 45 36%
 - o OIC: 8 30%
- Privacy
 o Global: 37 29%
 o OIC: 3 11%



Challenges for the 2010 round

- In spite of achievements during 2010 round, still challenges:
- Use of new technology (scanning, GIS, PDA)
- Financing for the census
- Lack of adequate skilled personnel
- Institution of annonymization procedures for dissemination of micro-data
- Census evaluation (both operation and data)
- Public concerns over privacy issues
- Enhancing statistical literacy of basic data users
- Implementing alternative approaches to traditional census
- Political situations



Thank You!