Regional Workshop on the 2020 World Programme on Population and Housing Censuses

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TurkStat
**Turkish Statistical Institute
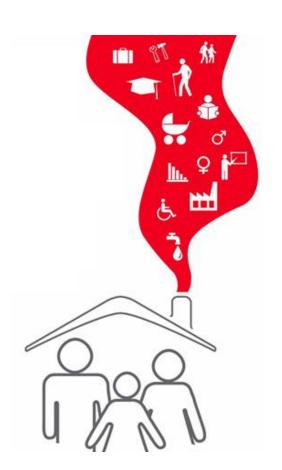Demographic Statistics Department**

Considerations for Planning Census Operations with Multi-Mode Data Collection Methods

Ankara, Türkiye
12-15 March 2019

Contents

- TurkStat's experience in 2011 PHC

  o Data Collection

  o CAPI Experiences

- Key considerations

2011 PHC and Data Collection

- TurkStat carried out 14 traditional censuses in between 1927-2000 and afterwards conducted the 2011 Population and Housing Census with **"combined"** method.

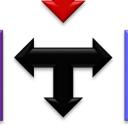- Data collected by paper questionnaires and netbooks

Stages Of The Field Operation

Stage 1. Controlling the addresses

| Controlling the addresses in sample enumeration areas September, 2011 | | Controlling the addresses of institutional places April-July, 2011 |

Stage 2. 2011 Population and Housing Survey Field Application, October-December, 2011

Private Households | | **Institutional Places**

Controlling the individual registers in ABPRS

Application of questionnaires (PAPI)

Interview with households (PAPI+CAPI)

Household Application

CAPI	PAPI
Addresses in the enumeration areas were downloaded to netbooks	Address labels were printed and pasted to the questionnaires
Address lists were printed	Address lists and ABPRS Lists were printed out
ABPRS Lists were downloaded	Interviews were realized with households, and the questionnaires were controlled by supervisors
Interviews were realized with households by using netbooks	Data entry was made by operators

Data transfer to the main system at the Headquarter of TurkStat

Our CAPI experiences in the last census

- Netbook usage (CAPI) provided some cross checks between answers at the time of the interview.

- Integrated edits in the program increased the data quality and minimized the missing data.

- Netbook usage for data capture created **time efficiency** compared to other methods (ICR, manual data entry).

- By using the netbook application, we had **ongoing data analysis** since the beginning of the field work and enumerators could transfer the data daily to the central office.

- By the **timely online data transfer**, field application could be monitored daily and guided actively through the central system.

Our CAPI experiences in the last census (cont)

- Although the use of netbooks provided many benefits in terms of time and quality, we also faced some problems in practice.

  o For example, there was a tendency of the enumerators to tick **"no"** to the first (filter) question in a set of associated questions (i.e. migration, labor force questions) in the netbook application.

  o Because the software was automatically skipping the related consecutive questions in these situations due to edit instructions.

  o But in the paper form, we observed that controllers (or data entry operators) could easily noticed these kind of systematic errors and enable them corrected.
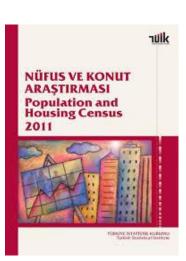
Advantages of the CAPI

- Using tablets or any other handheld devices provide accuracy and timeliness

- No additional data entry

- Easy to monitor the operation and the interviewer

- Inspires confidence to respondents and attracts interest; helps to give the impression of a serious and important work is done

- Easy to use in the field compared to printed questionnaires in most situations (no need for a pen, desk or a chair)

- No need to additional printed forms or lists. All of them are contained in the programme

Our CAPI experiences in the last census

- **Our experiences show that if CAPI is used for data collection, following issues should be taken into consideration carefully**:
    - ○ Capacity of the device
    - ○ Usefulness (screen visibility at the outdoor, ergonomics)
    - ○ Battery capacity
    - ○ Cost
    - ○ Need for a separate training?
    - ○ Need for internet connection
    - ○ Data confidentiality and security
    - ○ What will happen to the devices when the census finished?
        - ▪ TurkStat: Donated to schools
        - ▪ Alternative ideas?

NÜFUS VE KONUT ARAŞTIRMASI
Population and Housing Census
2011

Key Considerations

- Number of devices vs Number of enumerators

- Regional differences (urban/ rural/ capacity)

- Skills and capacity of enumerators

- Integration of PAPI data entry and CAPI softwares

- Recording the method by enumeration areas

- Duration of data entry (Monitoring, analysis, corrections)

- Capacity of IT personnel

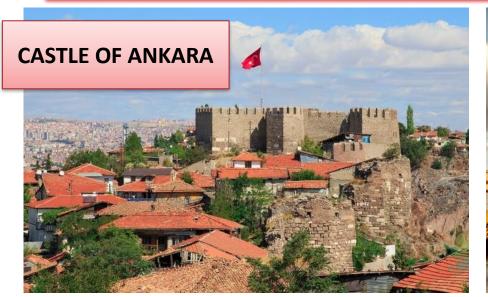- Different proceses (type of the staff-education-application...)

Gastronomy

İskender   Döner   Lahmacun   Şiş Kebap   Adana   Ayran

Köfte   Meze   Hamsi   Çipura   Çay

Mantı   Güllaç   Künefe   Baklava   Kahve

Ankara

ATAKULE

OLD ASSEMBLY

ANITKABİR

Ankara

CASTLE OF ANKARA

HAMAMÖNÜ

Çengelhan Rahmi M. Koç Museum

Thank you...