

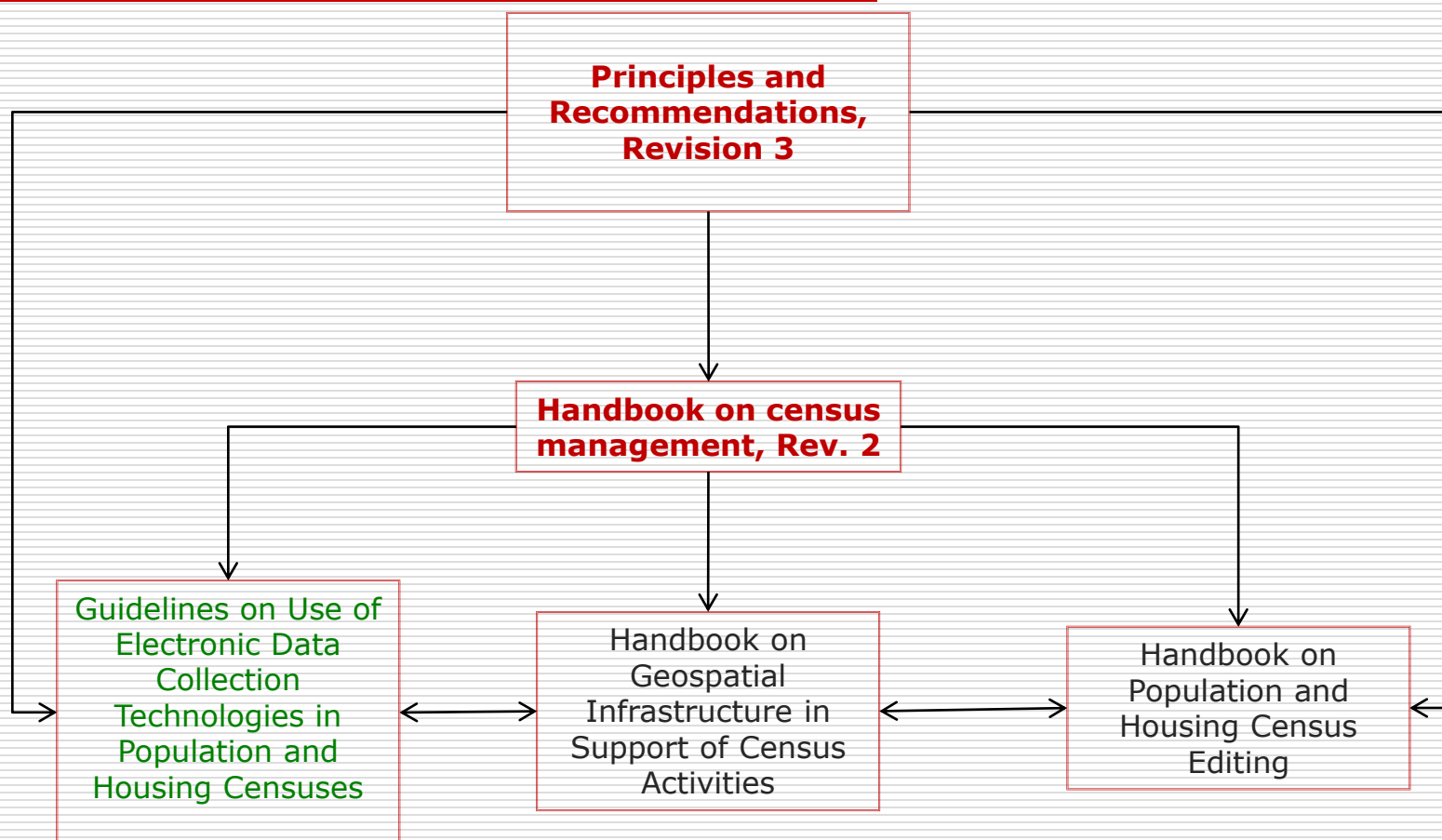


Draft Guidelines on the Use of Electronic Data Collection Technologies in Population and Housing Censuses

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UNSD Methodological framework – 2020 Round of Censuses





Outline of the *Guidelines*

- Chapter A. Introduction
- Chapter B. Overview
- Chapter C. Decision making
- Chapter D. Planning and preparations
- Chapter E. Handheld devices
- Chapter F. Internet



Chapter A. Introduction

Rationale for handbook

- In the context of the overall UNSD methodological framework
- In the context of steps already undertaken in number of countries
- Cross-referencing with national experiences

Scope

- All aspects of hand-held and internet use

Purpose

- Provide guidelines and advice for the 2020 round in concatenation with other methodological standards



Chapter B. Overview

- ❑ Drivers of technological innovations in contemporary censuses
 - ❑ Timely and high-quality statistics
 - ❑ Efficiency and savings
 - ❑ Public expectations and data

- ❑ Overview of data collection methods
 - ❑ Paper questionnaire with face-to-face interviews – PAPI
 - ❑ Computer-assisted personal interviewing – CAPI
 - ❑ Computer-assisted telephone interviewing – CATI

 - ❑ Paper questionnaire with self-enumeration – PASI
 - ❑ Computer –assisted self-interviewing – CASI

 - ❑ Multi-mode



Chapter C. Decision-making in adoption of electronic data collection technologies

- ❑ Key determinants
 - ❑ Institutional factors
 - ❑ Technological factors
 - ❑ Economic factors
 - ❑ Human, social, cultural ...
- ❑ Information required
 - ❑ National context
 - ❑ Operational aspects
 - ❑ Resources, cost estimates, benefits, risks
 - ❑ Time table
 - ❑ Re-use
 - ❑ Best practices
- ❑ Processes
 - ❑ Management group,
 - ❑ Analysis, decision



Chapter D. Planning and preparation

- ❑ Managing investment
- ❑ Institutional capacity development
 - ❑ Re-organizing the office
 - ❑ Management adjustment
 - ❑ IT skills, human capacity development
- ❑ IT Acquisition
- ❑ IT systems development
- ❑ Uses of geospatial technology
- ❑ Testing IT systems and processes
- ❑ Contingency planning
- ❑ Information and system security
- ❑ Evaluation of investment in technology



Chapter E. Data collection with handheld electronic devices

- ❑ Considerations for selection of handheld devices
 - ❑ Assessing available devices; features such as portability, size ...; evaluation schemes and protocols; device acquisition
- ❑ Data collection application(s)
 - ❑ CAPI features; buy, build or use freeware; design and performance
- ❑ Data transmission
 - ❑ Means of data transmission; technical considerations; risk mitigation
- ❑ Data security
 - ❑ Concerns and risks; security policies and measures
- ❑ Use of geospatial technology for enumeration
 - ❑ GIS for logistics, planning and operations; map applications; monitoring
- ❑ Testing application(s) and system
- ❑ Field operation management and monitoring
 - ❑ Recruitment; organization; technical support; management and monitoring
- ❑ Re-use of devices



Chapter F. Data collection with internet

- ❑ Benefits of using internet for data collection
 - ❑ Cost, quality, respondent burden
- ❑ Requirements
 - ❑ Reliable infrastructure; high literacy rate; public trust; address register
- ❑ Development of application and portal
 - ❑ User friendly, intuitive; adaptable to different platforms and devices
- ❑ Implementation
 - ❑ Only self-enumeration using internet or a combination
- ❑ Authentication
 - ❑ Unique access; unique code distribution protocols
- ❑ Communication strategies
 - ❑ Publicity
- ❑ Management and monitoring of responses
- ❑ Privacy and security
- ❑ Support for respondents



Work in progress

- ❑ At this moment (October 2017) half of the content is in the phase of a final draft
- ❑ Soliciting input and national examples for another two months
- ❑ Finalizing the *Guidelines* for final review by Task Force in January 2018
- ❑ Releasing (posting the volume on our website) February 2018
- ❑ As a live, online document, it will be updated at regular intervals as experiences and practices are accrued