

**Provisional Work Programme for Regional Workshop  
on the Use of Electronic Data Collection Technologies in Population and  
Housing Censuses**

Topics	Time
<b>DAY 1</b>	
<b>Welcome and introduction</b>	<b>9:00–9:15</b>
Opening remarks by ESCAP, UNFPA and UNSD	
<b>1. Use of technology in census operations: A global and regional overview</b>	<b>9:15–10:15</b>
<p>In recent decades, census planners have been deploying new technologies (for example: scanning, digital maps, online dissemination and electronic data collection) in carrying out census activities. While the use of technology has improved the overall quality of censuses, it poses many challenges including in designing census operations in a cost-effective manner and building capacity for successful adoption of these technologies.</p> <p>This session aims to discuss recent experiences in the use of modern technology in conducting population and housing censuses, with a special focus on the use of electronic data collection technologies. This session will review country practices in use of technology based on the experiences gained in the 2010 round and plans for the 2020 round.</p> <ul style="list-style-type: none"> <li>- UNSD presentation</li> <li>- ESCAP presentation</li> <li>- UNFPA</li> <li>- Discussion</li> </ul>	
<b>Coffee break</b>	
<b>2. Adding value to the census: Role of electronic data collection in statistical data integration</b>	<b>10:15–10:45</b>
<p>The process of establishing linkages between data sources for statistical purposes has been a key driver of innovations in official statistics. Countries across the region are already taking a range of approaches with regards to the statistical use of census data alongside other data sources, addressing the need to add value to census information while still protecting confidentiality. This session will discuss the opportunities and challenges related to data integration and the census and look at the important role electronic data collection can play in this process.</p> <ul style="list-style-type: none"> <li>- Presentation by ESCAP</li> <li>- Country presentations - two</li> <li>- Discussion</li> </ul>	<b>10:45–12:30</b>
<b>Lunch break</b>	
<b>3. Decision making process for adoption of electronic data collection</b>	<b>12:30–14:00</b>
<p>Recent advances in technology have provided NSOs with the opportunity to modernise their census processes. They have also brought many challenges for NSOs as they attempt to develop a sustainable and affordable approach in their own national context. This session aims to discuss key issues that have to be taken into consideration for making a sound decision on adoption of electronic data collection technologies in censuses, focusing on key</p>	<b>14:00–15:30</b>

<p>requirements and information needed for making a decision and management of this process. The session will also provide a platform, for participants to share country experiences on decision making process and challenges and motivations in selecting the use of hand-held devices and/or Internet for data collection purposes.</p> <ul style="list-style-type: none"> <li>- Presentation by ESCAP/UNSD</li> <li>- Country presentations – Two</li> <li>- Discussion</li> </ul>	
<b>Coffee break</b>	<b>15:30-16:00</b>
<p><b>4. Data Collection with Hand-Held Electronic Devices</b></p> <p>Adoption of hand-held electronic devices for data collection requires significant changes in census design and management of census operations. This session discusses operational aspects that have to be considered for successful adoption of CAPI, including: establishing capacity for managing census operations with this technology; building IT infrastructure; selection of hand-held devices; essential features of CAPI applications; data transfer; field management and organisation; establishing systems for supporting the field enumeration (e.g. Call Centre, remote IT support, etc); data confidentiality; system security, and strategies for reuse of the devices.</p> <p>This session will also allow the exchange of country experience in designing census processes with CAPI.</p> <ul style="list-style-type: none"> <li>- Presentation by ESCAP/UNSD</li> <li>- Country presentations -three</li> <li>- Discussion</li> </ul>	<b>16:00–17:30</b>
<b>DAY 2</b>	
<p><b>4. Data Collection with Hand-Held Devices (Continued)</b></p>	<b>9:00-10:30</b>
<b>Coffee break</b>	<b>10:30-11:00</b>
<p><b>5. Data collection with Internet</b></p> <p>An increasing number of countries are using the Internet for data collection in order to decrease census cost and improve coverage. The successful adoption of this technology requires a good understanding of the requirements as well as feasibility analysis to see if this method is applicable in a country context.</p> <p>This session will discuss the main aspects of using Internet for data collection, including: the benefits and challenges of using Internet in censuses, designing census procedures, data collection application and portal, identification and authentication of respondents, contact and communication strategies, support for respondents, management and monitoring of Internet response and system security.</p> <ul style="list-style-type: none"> <li>- Presentation by ESCAP/UNSD</li> <li>- Country presentations -two</li> <li>- Discussion</li> </ul>	<b>11:00-12:30</b>
<b>Lunch break</b>	<b>12:30-14:00</b>

<p><b>6. Considerations for planning census operations with multi-mode data collection methods</b></p> <p>Multi-mode data collection (the use of two or more of the following methods: CAPI, CAWI, CATI, PAPI and PASI) can help to improve coverage and decrease census costs, as one method may compensate for the limitations of others. The use multi-mode data collection approach and its benefits and challenges should be carefully examined during the early planning phase of the census.</p> <p>This session will discuss the potential benefits of the use of multi-mode approaches and the challenges in designing and management of census operations with multi-mode approaches. This session will also discuss possible impacts of the use of multi- mode data collection on the quality of data and ways of mitigating this negative impact.</p> <ul style="list-style-type: none"> <li>- Presentation by ESCAP/UNSD</li> <li>- Country presentations- two</li> <li>- Discussion</li> </ul>	<p><b>14:00-15:30</b></p>
<p><b>Coffee break</b></p>	
<p><b>7. Considerations for management of census operations using electronic data collection technologies</b></p> <p>The introduction of electronic data collection technologies in censuses requires a well-organised preparation and institutional capacity for designing and managing census activities. Preparatory activities for the adoption of electronic data collection involve many aspects including human resource development, IT infrastructure development, a well-designed testing programme and management of procurement and outsourcing and. This session will discuss key considerations for successful adoption of electronic data collection technologies in censuses.</p> <ul style="list-style-type: none"> <li>- Presentation by ESCAP/UNSD</li> <li>- Country presentations -two</li> <li>- Discussion</li> </ul>	<p><b>15:30-16:00</b> <b>16:00-17:30</b></p>
<p><b>DAY 3</b></p>	
<p><b>8. Use of geospatial technologies for supporting field enumeration</b></p> <p>This session is devoted to discussion on how GIS system and other geospatial tools such as GPS can be efficiently used for the modernisation of census enumeration activities. The importance of collecting georeferenced data for field management and monitoring will be covered in the session. Country presentations will also provide an opportunity to discuss the benefits of establishing GIS for supporting field enumeration activities.</p> <ul style="list-style-type: none"> <li>- Presentation by ESCAP/UNSD</li> <li>- Country presentations -two</li> <li>- Discussion</li> </ul>	<p><b>9:00-10:30</b></p>
<p><b>Coffee break</b></p>	
<p><b>9. Management Information System and other tools for management and monitoring of field enumeration</b></p>	<p><b>10:30-11:00</b> <b>11:00-12:30</b></p>

<p><b>a. Management Information System (MIS)</b></p> <p>Establishing a management information system (MIS) is necessary for the management of field enumeration and monitoring of progress and the quality of enumeration. The MIS has a number of important functions including: (i) providing up-to-date information needed by different levels of field staff as well as staff at headquarters regional offices, (ii) establishing easy communication among field staff and (iii) providing reporting tools for real-time monitoring of fieldwork. Such a system is fundamental for identifying problems and taking appropriate corrective actions during the field enumeration.</p> <p>This session will discuss the importance of establishing MIS as an integral part of the electronic data collection system and its main roles and functions for supporting field enumeration.</p> <ul style="list-style-type: none"> <li>- Presentation by ESCAP/UNSD</li> <li>- Country presentations -two</li> <li>- Discussion</li> </ul>	
<b>Lunch break</b>	
<p><b>9. Management Information System and other tools for management and monitoring field enumeration (continued)</b></p> <p><b>b. Call Centre</b></p> <p>A Call Centre performs many functions including for providing support to the public during enumeration and to the field staff during field work. The role of this system will be more critical in the case of the use of electronic data collection to provide immediate support to the field staff with regard to technology and other methodological issues. The Call Centre can also serve as a means of data verification as well as a data collection mode especially during follow-up of non-responding households.</p> <p>This session will discuss some of the possible functions of a Call Centre, how to establish and manage such a Centre during enumeration.</p> <ul style="list-style-type: none"> <li>- Presentation by ESCAP/UNSD</li> <li>- Country presentations - two</li> <li>- Discussion</li> </ul>	<b>14:00–15:30</b>
<b>Coffee break</b>	
<p><b>10. Conclusion and closing</b></p> <p>Closing remarks by ESCAP, UNFPA, UNSD</p>	<b>16:00-17:00</b>