

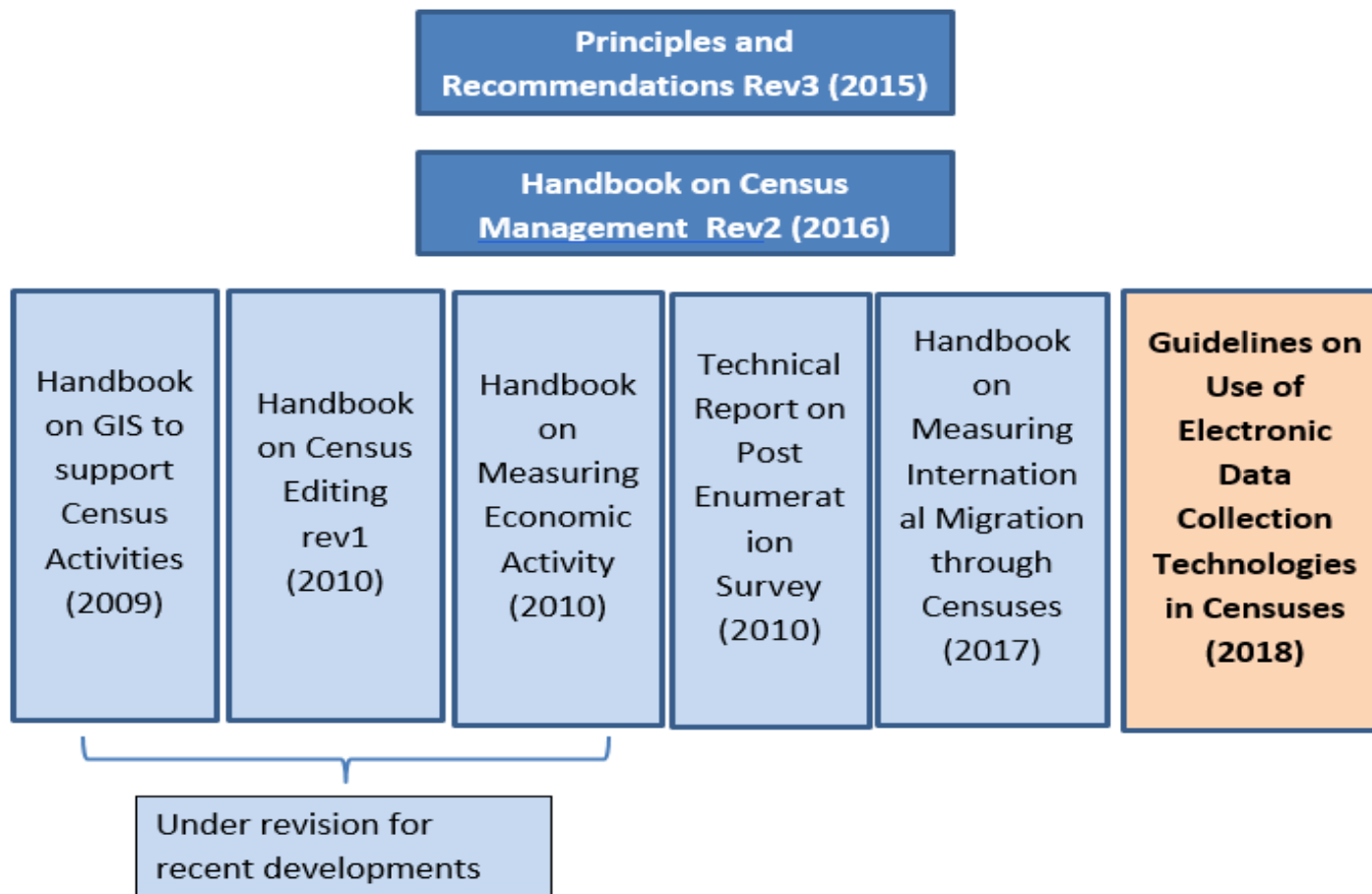


Guidelines on the Use of Electronic Data Collection Technologies in Population and Housing Censuses

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Methodological Framework



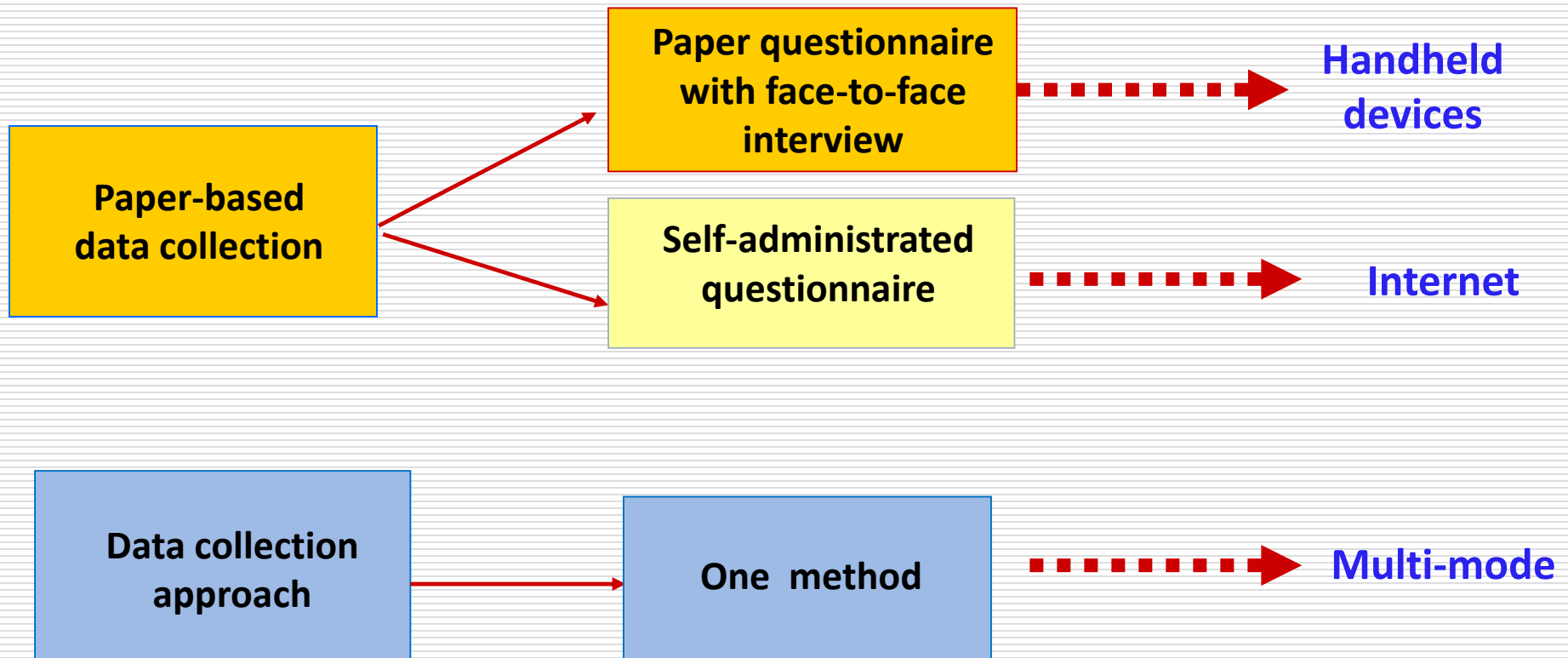


Guidelines on the Use of Electronic Data Collection

- ❑ Aims to strengthen the capacity of national statistical offices in:
 - Identifying key factors for making sound decision on the use of electronic data collection technologies
 - Designing census processes for data collection with hand-held devices or Internet or multi-mode approach
 - Developing strategies for maximizing the benefits from this investment



Transition from paper to electronic data collection





Guidelines on the Use of Electronic Data Collection

- ❑ **Decision-making in the adoption of electronic data collection technologies**
 - *Process of decision-making, key determinants, information required*
- ❑ **Data collection with handheld devices**
 - *Advantages/challenges, data collection application, questionnaire design, data transfer, security of data, use of GIS, field management/monitoring, re-use of devices*
- ❑ **Data collection using the Internet**
 - *Advantages/challenges, contact/communication strategies, data collection application and portal, management and monitoring of Internet response*
- ❑ **Multi mode data collection approach**
 - *Advantages/challenges, design approach, implications for data quality, minimizing mode effect, management considerations*
- ❑ **Management considerations**
 - *Management of IT investment, institutional capacity development, IT acquisition management, Testing IT systems, Information and system security*



Key messages

- ❑ Decision should be made with the involvement of all stakeholders/partners based on analysis of the requirements for a specific technology
- ❑ Early decision is necessary for redesigning census processes and undertaking extensive testing
- ❑ Successful management of census project requires well-designed management structure considering all aspects of new technology and outsourcing/ procurements
- ❑ Real time/daily monitoring of field enumeration is essential to take full advantage of the data collection technologies



Key messages

- ❑ Use of GIS and collecting georeferenced data are crucial for improving:
 - Efficiency and effectiveness of field management and monitoring
 - Census coverage and data quality
 - Analytical power of census data for producing policy-oriented information
- ❑ Multi-mode data collection approach will improve census coverage but requires well-designed, integrated data collection system



THANK YOU..