NEW APPROACHES IN THE PROCESS OF THE 2019 POPULATION CENSUS PREPERATION AND CONDUCTION IN THE REPUBLIC OF BELARUS

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EXPECTED RESULTS OF THE ACTIONS TAKEN

Updating, improving the quality and possibility of the further usage of maps not only for the census purposes, but for other statistical surveys as well.

Automatization of the temporary hired census staff work while preparing for the census and conducting interviews, which will lead to the reduction of the temporary hired personnel headcount.
To automatize data entry at the moment of interviews with respondents and to make sure the enumeration forms to be filled more precisely thanks to the control system.

To protect data in the phase of its collection, transferring, processing, storing and dissemination in accordance with the legislation of the Republic of Belarus.

To reduce time needed to receive final population census results in the Republic of Belarus in 2019.
To reduce the number of enumerators almost by three times (1K registers and 15.3K enumerators instead of 1.6K registers and 43.1K enumerators)

To use electronic mapped materials, enumeration forms, different methodological instruction, which is the main requirement of the “Green” Economy Development National Action Plan in the Republic of Belarus by 2020
Usage of tablet computers and special software in the practical work of national statistics and other economical industries

Making electronic population census data available to all categories of the publics through National Automated Information System
Population Census System

GIS «Population Census»
Providing enumerators with personal mapping information

Mini-system for data collection and transferring
Collection of personal data with the help of tablet computers. Linking it with administrative data sources

Mini-system for data storage and processing
Anonymization. Processing. Storage. Preparing tables with final results

System of final results dissemination (Access system)
Access to the census final results through Internet
FUNCTIONAL SCHEME OF THE CENSUS SYSTEM

- Подсистема сбора и передачи данных (клиентская часть)
- Беспроводные каналы связи
- Источники административных данных
- Подсистема сбора и передачи данных (серверная часть)
- ГИС «Перепись населения»
- Подсистема обработки и хранения
- Система распространения Итоговых данных
In 2016 we designed special technology that enables to form census stations automatically for conducting surveys based on the data from administrative sources.

The software for collection and transmission of data was developed in 2017:

1. Software “Register”
2. Software “Enumerator”
Software “Register” was developed for updating lists and characteristics of all buildings where people live.

Main functions of the software:

- register map – the map of the station and attributive information is displayed on the tablet screen;

- work audit – control of transferring data to the server;

- work results – creating the report about the results of updating addresses.
PLAN OF REGISTER STATIONS

Регистратор

Добавить адресную точку (ввод новых данных)
TABLE OF ATTRIBUTIVE INFORMATION OF THE PARTICULAR ADDRESS

Регистратор - г. Минск ул. Алтайская 192

Местоположение

Населенный пункт
г. Минск

Тип ЭУДС
ул.

ЭУДС
Алтайская

Номер дома
192

Индекс дома

Корпус

Назначение здания
ОДНОКВАРТИРНЫЙ ЖИЛОЙ ДОМ

Количество квартир

Показывать собственное местоположение
“REGISTER” MODULE

Ability to work with data in the “register” tablet:
- Entering data, checking received data, editing data and data storage

Uploading processed maps and data into geodatabase of GIS “Population Census”

On-line information about register’s movements in the area, obtaining information and putting it up on the screen.
Automated creation of maps, register-based, main and secondary statistical districts for the purpose of interaction with client part of Register Module based on the maps created in GIS “Population Census”

Transferring the processed maps with data through wireless channels into the register’s tablet and synchronizing it; receiving back from the register’s tablet maps and data that are already processed
“ENUMERATOR” MODULE

Forming the lists of addresses in the enumeration station and transferring it, also transferring the maps into the enumerator’s tablet computer.

Conducting interview with respondents by filling out electronic enumeration forms, ability to work with the respondent’s data during the interview (entering, checking, editing and storing the data).

Executing logical and mathematical control in order to find discrepancies within the personal data.
Main functions of the Enumerator software:

- **interview** – filling out enumeration forms;
- **daily task** – creating the list of addresses to conduct interviews during this day;
- **work audit** – making sure personal data are transferred to the server;
- **reports** – creating reports about the work completed by the enumerator.
Ваше семейное положение (для лиц в возрасте 15 лет и старше):

- никогда не состоял(а) в браке
- состою в зарегистрированном браке
- состою в незарегистрированных отношениях
- вдовец, вдова
- разведен(а)
- разошёлся(лась)
Uploading the register’s data and partially filling out electronic enumeration forms

Integration with MOC facilities in order to provide encrypted respondents’ data transferring to the server or storing encrypted data in case of connection failure

Obtaining, storing and transferring information about enumerator’s movements in the area and the results of his work
To develop subsystem of internet-census in 2018 (depending on the financing)

In 2019-2020, to update the system of access to the 2009 population census final results which would enable to post the 2019 population census final results and provide access to them through the Single portal of electronic services.
Thank you for your attention!