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USE OF COMPUTING MOBILE DEVICES IN THE ECONOMIC CENSUSES FOR UPDATING THE MEXICAN STATISTICAL BUSINESS REGISTER AND GEOREFERENCING ESTABLISHMENTS

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Abstract

The purpose of the presentation is to describe some uses of the Computing Mobile Devices (DCM its acronym in Spanish) for updating the Statistical Business Register in Mexico, as well as georeferencing of establishments. Mexican Economic Censuses are carried out every five years; the use of the DCM has been implemented for the last three Economic Censuses (2004, 2009 and 2014), which has allowed INEGI to significantly improve the collection of information.

For the 2014 Economic Census, the system enabled to locate, during the itinerary of the census researchers, both establishments and dwellings at the specific point where they are located in the geographical space. The point in front of the blocks was precisely assigned in the digital cartography for collecting data of more than 5 million establishments during the Economic Censuses 2014.

The DCM included the directory of the Mexican Statistical Business Register, which enabled to update the status of every single establishment during the collection itinerary, by pointing out the continuity of operating establishments, identifying those no longer in business, and registering those not previously captured in the directory.

The app designed comprises tools for incorporating new blocks, roadways, districts, and it allows updating names and type of roadways, external numbers, merged blocks, etc; i.e., it reflects the changes occurred in the settlements, and it allows locating the economic units and the dwellings in the geographical space with higher precision, and overall, with a higher degree of confidence concerning the location of points in the digital cartography. The point merges data on address, street name, back street, district name, locality, municipality, state, as well as zip code, inheriting them to both the directory and the corresponding census questionnaire.

Likewise, the app in the DCM considers the classification of the economic activity, automated data validation (at the moment of capturing), and the production of reports for control and tracking work progress.

Keywords: Computing mobile device, digital cartography, statistical business register, automated data validation.