NATIONAL POPULATION AND HOUSING CENSUS (CNPV)

COLOMBIA 2018

Bogotá, Colombia

DANE INFORMACIÓN ESTRATÉGICA

GOBIERNO DE COLOMBIA

Purpose of **DANE's mission to count Colombia:**
How many and where we are? How do we live?

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Collect data on dwellings, households and persons
in the entire **country** in order to stablish:

**Size of our
population**

Locations

**Living
conditions**

Intense planning and exhaustive pre-census activities:
concepts, methods and technology at the core

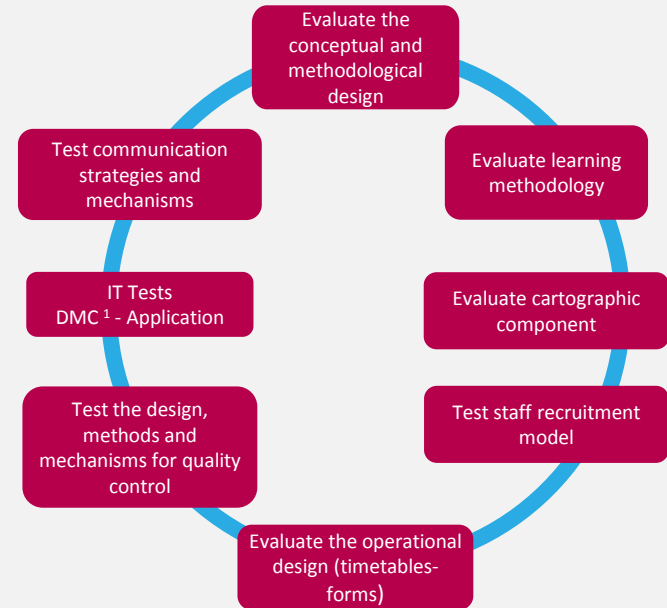## Design and Planning of the CNPV

- Conceptual and methodological features
- Thematic, operational and IT design
- Review of innovative practices for the collection of information gathering (eCensus)
- Desktop, field and experimental census tests
- Lessons learnt from the National Agriculture and Livestock Census 2014

Definition of census questionnaire

- Questionnaire structure: location, housing, household and persons
- Agreements with ethnic groups
- Participation of public entities from national, departmental and municipal level
- Participation of academia and enquiries of national and international organizations

Experimental test

- Evaluate the conceptual and methodological design
- Evaluate learning methodology
- Evaluate cartographic component
- Test staff recruitment model
- Evaluate the operational design (timetables-forms)
- Test the design, methods and mechanisms for quality control
- IT Tests DMC [1] - Application
- Test communication strategies and mechanisms

[1] DMC: Acronym in Spanish for Handheld Data Collection Device

Inclusive census under a differential ethnic approach
applied throughout the planning, questionnaire definition and census implementation processes

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Census questionnaire: enquired, agreed upon and formalized with ethnic representatives:

- Territory
- Codification of communities
- Self-recognition, people and clans
- Languages

Census processes: enquired, agreed upon and formalized with ethnic groups:

- Collection and supervision teams formed with members of ethnic communities
- Training with differential strategies
- Transportation operation and staff management by ethnic communities organizations

| **Black, Afro-Colombian** and Afro-descendant population | **Indigenous population** 111 indigenous groups in 24 departments / mainly rural areas | **Rom or gypsy people,** 11 Kumpanias |

Structure of the **census questionnaire**

I. LOCATION	II. DWELLING *(For the first household of the dwelling)*	III. HOUSEHOLD *(For all the households)*	IV. PERSONS *All the persons* Persons aged 3 years or older Persons aged 10 years or older Women aged 10 years or older
13 questions	**7 questions**	**9 questions**	**28 questions**
• Department • Municipality • Class • Collection operational variables • Ethnic territoriality	• Type of dwelling • Occupancy of the dwelling • Number of households • Wall and floor materials • Public services • Sanitary facilities	• Total number of rooms used to sleep • Location and source of water for food preparation • Deaths • Register of persons (usual residents)	• Sex • Age • Identification document and number • Kinship • Ethnicity • Migration • Available health care • Disability • Education • Activity carried out last week • Marital status • Fertility

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Firm commitment to incorporate technology
4 years to launch and provide an innovative census

2014 - 2017

Design and planning

**Tests
Best practices
Experimental census
Mobilization**

- Design and tests for:
  - eCensus
  - Data capture in DMC
- Platform for staff management, training centers and operations

Pre- census activities

2018

eCensus

Geolocalization

- eCensus implementation
- System for coverage and quality monitoring and control
- Geo-referencing of census units
- B-learning training
- Validation and imputation of results

Census operation

2018 - 2019

Results and Microdata

Projections

- Dissemination on the Website and anonymised microdata
- Complement of results from administrative records
- Demographic and statistical models for the splicing of population series

Post-census activities

Our greatest ambition: in the first phase, for the first time, the entire the country can electronically record themselves in a census.

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What is the **e Census**?

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It is the **first phase** of the National Housing and Population Census 2018, that is conducted in a digital version.

- **Innovation** in the way of collecting the census information

- **Inhouse development**

eCENSUS

The eCensus, an **In-house development** which took into account the best practices and standards

Design and development

Tests

Adjustments

Pillars:

- Performance of the platform

- Accessibility

- Storage

- Information security

Our eCensus design and development met 6 key elements

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Multi-disciplinary In-house team

1. Adjustment to offer an easy and accessible census

2. Design and development of the eCensus application

3. Technological Infrastructure

4. Robust citizen support service

5. Broad Communication strategy

6. Precise coordination with the field operation

eCensus and field operation coordination:
geo-codification process, almost in real-time, supported by the cadastre's geo-referrenced database of urban and rural addresses,

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INPUTS

01 Integration of National Geestatistical Framework Land Cadastre

02 Construction of the cadastre of Addresses

15,842,874 records

PROCEDURES

03 National database of geo-referrenced place names

3,306,798 records

04 Algorythms of association between the databases of the eCensus and the Cadastre of Addresses
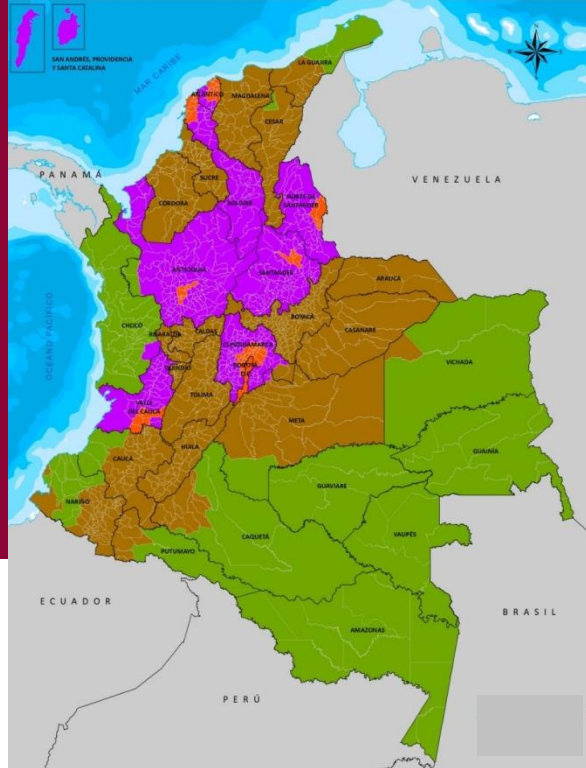
RESULTS

05 Addresses of the dwellings in the eCensus register, geo-referrenced

Door-to-door operation to complete the information and briefly verify on households that completed the eCensus for coverage purposes

Phase 2
Duration: 3 months
April - June
481 municipalities

Phase 3
Duration: 2 months
May - June
551 municipalities

Phase 4
Duration: 1 month
June
90 municipalities

Scope of 1,122 municipalities:
1,101 municipalities, the **San Andrés, Providencia and Santa Catalina Archipelago** as well as the 20 areas not organized into municipalities

CNPV Collection methods are tailored depending on the environment conditions

Electronic

Collection by means of the completion of the census questionnaire through a **web application**

Sweep

Systematic route that allows the work team to return daily to deliver reports

Route

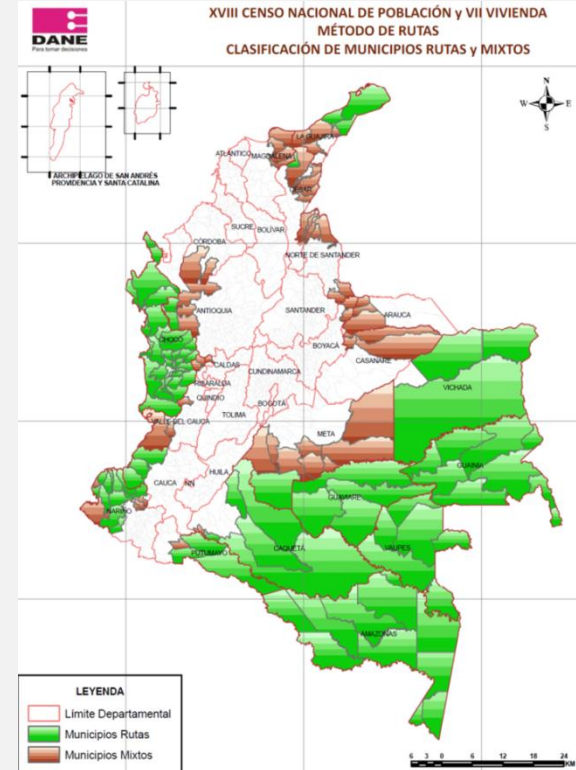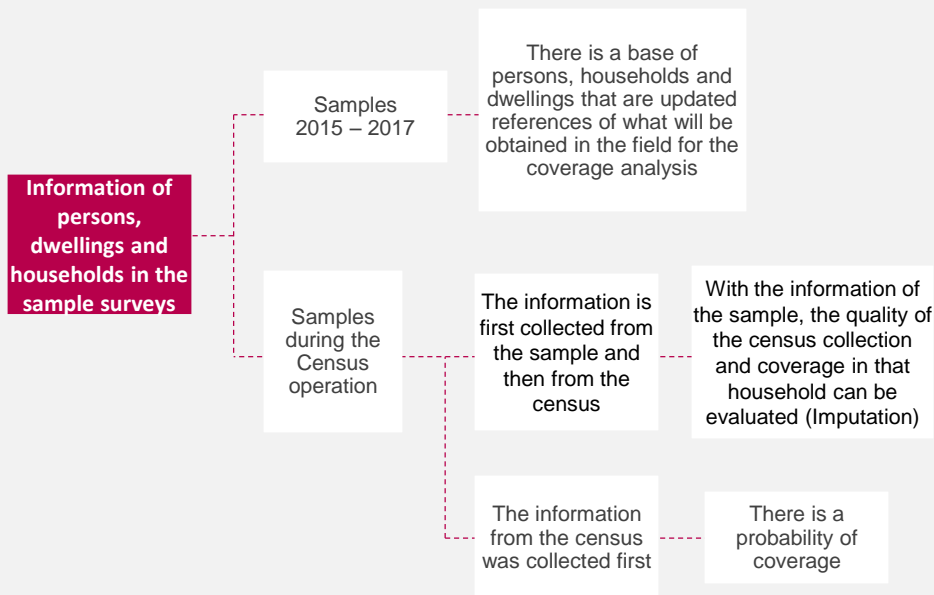**Routing of territories** whose geographic access does not allow the daily return of the work team

Mixed

Mixed Routing that considers the two collection methods **(sweep and route)** with their respective strategies
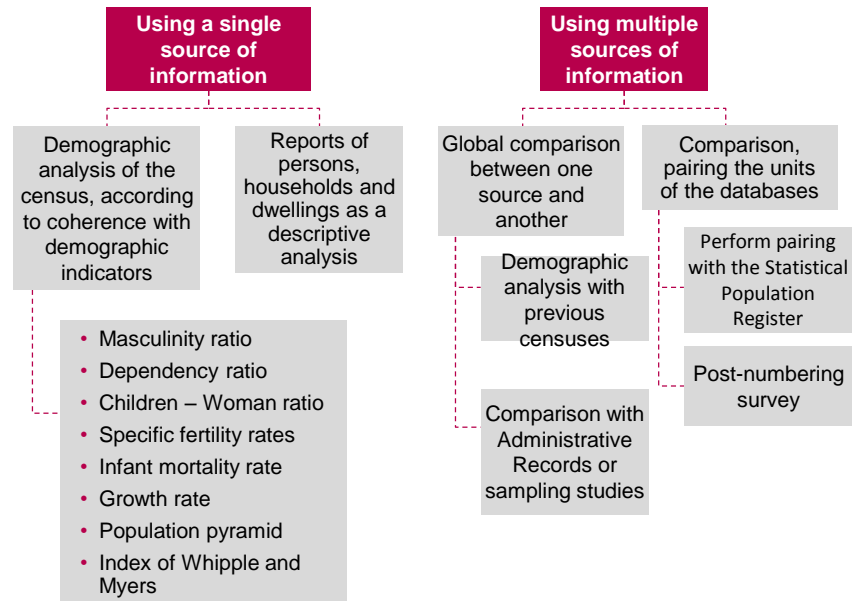

XVIII CENSO NACIONAL DE POBLACIÓN y VII VIVIENDA
MÉTODO DE RUTAS
CLASIFICACIÓN DE MUNICIPIOS RUTAS y MIXTOS

LEYENDA
Límite Departamental
Municipios Rutas
Municipios Mixtos

Evaluation Model of census coverage and quality

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Use of samples for coverage analysis

Information of persons, dwellings and households in the sample surveys

Samples 2015 – 2017

There is a base of persons, households and dwellings that are updated references of what will be obtained in the field for the coverage analysis

Samples during the Census operation

The information is first collected from the sample and then from the census

With the information of the sample, the quality of the census collection and coverage in that household can be evaluated (Imputation)

The information from the census was collected first

There is a probability of coverage

Use of administrative records for coverage and quality analysis

Using a single source of information

Demographic analysis of the census, according to coherence with demographic indicators

Reports of persons, households and dwellings as a descriptive analysis

- Masculinity ratio
- Dependency ratio
- Children – Woman ratio
- Specific fertility rates
- Infant mortality rate
- Growth rate
- Population pyramid
- Index of Whipple and Myers

Using multiple sources of information

Global comparison between one source and another

Comparison, pairing the units of the databases

Demographic analysis with previous censuses

Perform pairing with the Statistical Population Register

Comparison with Administrative Records or sampling studies

Post-numbering survey

Benefits of ICT in the production of statistical information

- The **eCensus optimizes the** information **collection processes**.

- The **eCensus** is a tool **easy to use and accessible,** which contributes to the **attainment of the objectives of digital Government and facilitates the liaising with the citizenry**.

- More **eCensused** households optimize the door-to-door operation. This represents a greater **efficiency in public resources and in the timeliness of information.**

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