

# Use of statistical information to control and relief COVID-19 socioeconomic impacts: Case of Colombia

**Webinar: Using the MPI as a tool for crafting government  
responses to the COVID-19 pandemic**

**May 28, 2020**



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# Nascent Colombian Data Ecosystem

- NSS-National Statistical System
- Subset of subnational Statistics producers
- Subset of Municipality-level Statistics producers
- Information users



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<sup>1</sup> Article 155 of Law 1955 of 2019. From the supply side, in addition to national and sub-national entities that produce statistical information; there are the legal persons, public or private, that provide public services and the legal persons that possess, produce or manage administrative records in the development of their corporate purpose, which are necessary inputs for the production of official statistics.

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## Using information to design and implement public policies



# Use of available information








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# About MPI-Colombia

MPI-Colombia is composed by 5 dimensions and 15 indicators displayed in the chart below.

 <b>Housing standards and basic services (0.2)</b>	 <b>Childhood and youth conditions (0.2)</b>	 <b>Health (0.2)</b>	 <b>Employment (0.2)</b>	 <b>Education (0.2)</b>
No-aqueduct system access (0.04)	School non-attendance (0.05)	No health assurance (0.01)	Informal employment (0.01)	Illiteracy (0.01)
No-sewage system access (0.04)	School lag (0.05)	Barriers to access to health service when needed (0.01)	Long term unemployment (0.01)	Low educational achievement (0.01)
Inadequate floor material (0.04)	Barriers to access to early childhood care (0.05)			
Inadequate walls material (0.04)	Child labor (0.05)			
Overcrowding (0.04)				



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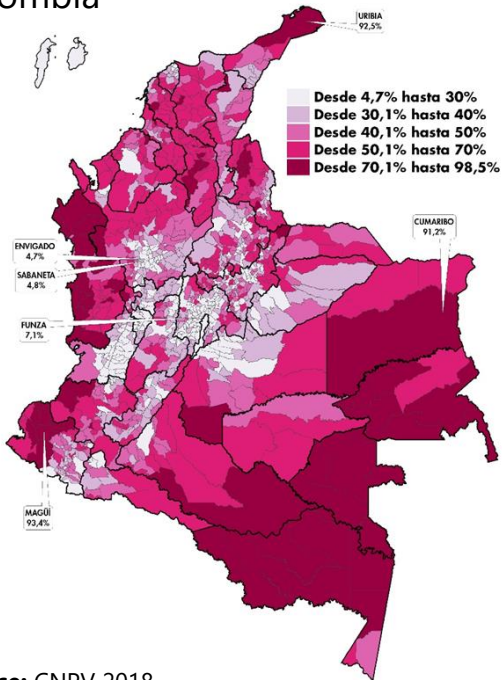
To find more information about proxy MPI-Colombia using census data please scan the code with your mobile phone or device.



# Use of available information (I)

## National Housing and Population Census 2018

MPI with census data at municipality level was available before the Emergency Situation Declaration by the government of Colombia



In order to produce relevant information for public policy analysis and decision making, DANE disaggregated and made available to general public census MPI information at a street block level

Census MPI at block level. Monteria, Cordoba.



<http://geoportal.dane.gov.co/visipm/>

## Use of available information (II)

### Administrative records and Households surveys

Before of State of Emergency Declaration, National Housing and Population Census 2018 had the following information:

- *BDUA* – Administrative records from health system
- *PILA* – Administrative records from social security and pensions system



The 3rd article of the legislative decree 458 allowed DANE to transfer its privacy and data protection policy to *in need* governmental institutions both at a national and subnational level



#### **National Census 2018 integration with:**

- Available administrative records (*BDUA*, *PILA* and *DPS* programs)
- Households surveys

#### **Therefore, DANE built a master dataset with:**

- Location information
- Sociodemographic information
- Census MPI
- Labor market individual situation and monetary poverty indicators from households surveys

DANE delivered the master dataset to national and subnational governmental entities using a special protocol defined under legislative decree 458 framework

## Use of available information (III)

### Administrative records

Before of State of Emergency Declaration, SISBEN (Colombian social programs beneficiary identification system) was collecting information for its 4th version.

The Ministry of Planning (DNP in Spanish) is in charge of this process.

It is important to mention that this identification is exclusively done for people living in lower socioeconomic strata (1, 2 and 3, from 6 as defined in Colombia). Therefore, it represents a *socioeconomic targeting* subset of the aggregate population.



### **SISBEN integration and construction of the dataset called “SISBEN master” which includes:**

- SISBEN version 3 and 4 selecting the most updated information for each beneficiary
- Integration of the administrative records of institutions that administrate social programs
- Integration of National Census information

The information was delivered by DNP to all local governments in the country, in order to give them inputs to design and focalize programs for vulnerable and poor population affected by the COVID-19



# Information calculated during the time frame of the COVID-19



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## Information calculated during the time frame of the COVID-19 (I)

### Vulnerability Index

In order to generate relevant information for public policy analysis and decision making during the time frame of the COVID-19, from health and care perspective, DANE with DNP and analysis unity of IETS (Health Technological Evaluation Institute) elaborate vulnerability index methodology.



Vulnerability  
Index

#### Components

- Pre-existence of pathologies identified as risk factors for people infected with COVID-19 (hypertension, diabetes, heart diseases, lung diseases and cancer)
- Households and persons characteristics at block level:
  - People older than 60 years
  - Households in overcrowding
  - Households with high and medium risk in terms of intergenerational composition
  - People older than 60 years in individual households

## Information calculated during the time frame of the COVID-19 (II)

### Vulnerability Index

Using the information mentioned before were determined five levels that would detect people vulnerability after being infected by COVID-19:

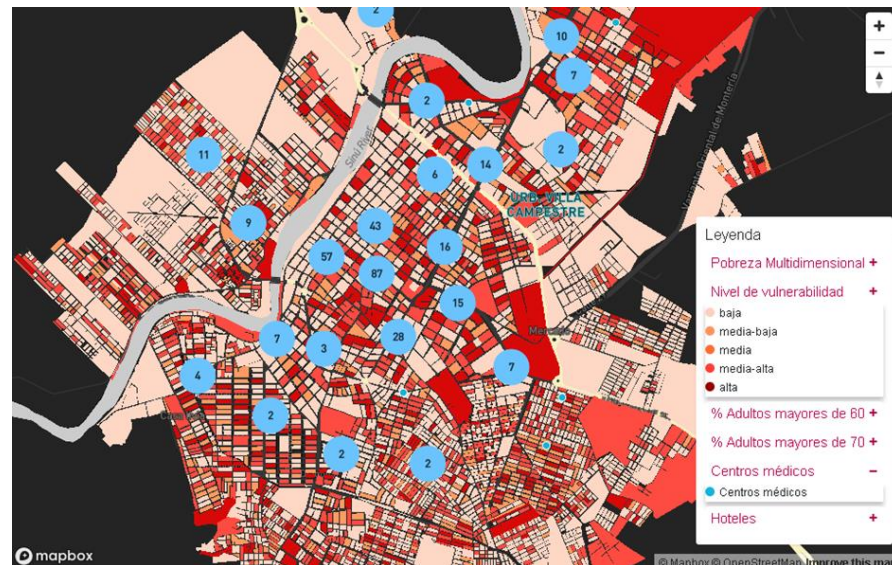
- Low
- Medium-low
- Medium
- Medium-high
- High

Therefore, DANE published a maps viewer with vulnerability index information at block-level with:

- Census MPI
- Health institutions



### Vulnerability Index and Health institutions. Monteria, Cordoba.



<http://geoportal.dane.gov.co/visipm/>

# Using information to design and implement public policies



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## Using information to design and implement public policies (I)

### National Government Policies

National Government Policies implemented to control and relief of COVID-19 oriented to population on poverty and vulnerability situation

#### ***Ingreso solidario (unconditional cash transfers)***

- Non conditional cash transfer
- Target population: population at poverty and vulnerability situation that aren't beneficiaries of alternative programs
- Targeted using SISBEN master
- Will benefit 3 million families

#### **Coverage expansion of social programs (conditional cash transfers)**

- Additional transfer to beneficiaries of "*Familias en Acción*" program
- Expansion of coverage programs to families with the following status: registered and interrupted
- Focalized using administrative records from DPS
- Will benefit 2.6 million families

#### **Value Added Tax refund (solving VAT regressivity)**

- Economic compensation for households on Poverty in order to protect and improve its consumption capacity
- Prioritized for families in the programs "*Familias en Acción*" and "*Colombia Mayor*"
- Will benefit 1 million of families

## Using information to design and implement public policies (II)

### Local governments policies

Local government institutions also implemented policies to control and relief COVID-19 focused on population on poverty and vulnerability condition

In order to design and implement public policies at regional level, local governments have been using mixed information from:

- Master dataset built by DANE (it has been delivered to 15 local entities – plus 8 on going)
- SISBEN master delivered to all the municipalities
- Public information available at maps viewers on DANE website



### Local governments aid programs

- Cash transfers
- In kind aids (nourishment and first need items)

### Other uses of information

- **Vulnerability index:** health promotion and prevention of disease as well as lockdown strategies and progressive reopening by sectors in Bogotá D.C.

# DANE

INFORMACIÓN PARA TODOS

[Comunicado de prensa](#) [Tutorial](#)

Grupos por niveles de vulnerabilidad de fuente censal - información a nivel manzana

Departamento

ATLÁNTICO

Municipio

BARRANQUILLA

Capas disponibles

**Índice de pobreza multidimensional**

Activar

Transparencia

Altura

**Grupos por nivel de vulnerabilidad**

Activar

Transparencia

Altura

**% Adultos mayores de 60 años**

**% Adultos mayores de 70 años**

**Centros médicos**

