Colombian Vulnerability Index

COVID-19: Strategies for a Geospatial Response in the Americas

Mayo 15 de 2020

# Integration of Statistical and Geospatial Information for better decisions

Objective: Since 17 March, the National Planning Department (DNP), the Institute of Health Technology Assessment (IETS) and the National Administrative Department of Statistics (DANE) have been collaborating with the Ministry of Health and Social Protection and the National Institute of Health to provide statistical and build tools that will make it easier for the government to make decisions with greater certainty for the attention of the emergency caused by the COVID-19.

- Timely information
- Easy to use
- Hight level of geographical disaggregation
- Inter-institutional partnerships

Information is power, but only if people are able to access, understand and apply it

Calculation of the vulnerability index per block using demographic variables and comorbidities

The project sought to identify with the highest possible of disaggregation level (block) the population in the municipalities of the country that due to their demographic characteristics and their conditions of health may have more complications if they get the COVID-19
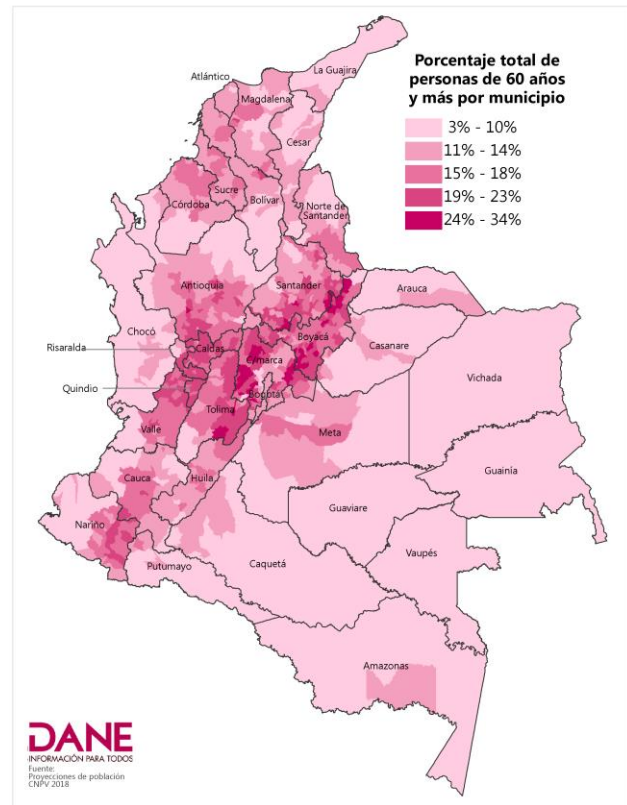
Calculation of the vulnerability index per block using demographic variables and comorbidities

Identification per block of individuals with comorbidities and demographic characteristics

Assign a level of vulnerability to each cluster

Apply the technique of unsupervised learning kmeans by urban areas

Document:
https://www.dane.gov.co/files/comunicados/Nota_metodologica_indice_de_vulnerabilidad.pdf

Geovisor – support codvid management

https://geoportal.dane.gov.co/visor-vulnerabilidad/

DANE
INFORMACIÓN PARA TODOS

ℹ Comunicado de prensa   ■◀ Tutorial

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

Departamento

Seleccione...   ▼

Capas disponibles

⚲ Indice de pobreza multidimensional   +

👥 Grupos por nivel de vulnerabilidad   +

　　Activar   ●

　　Transparencia ━━━━━━━━━━━━●

　　Altura   ●━━━━━━━━━━━

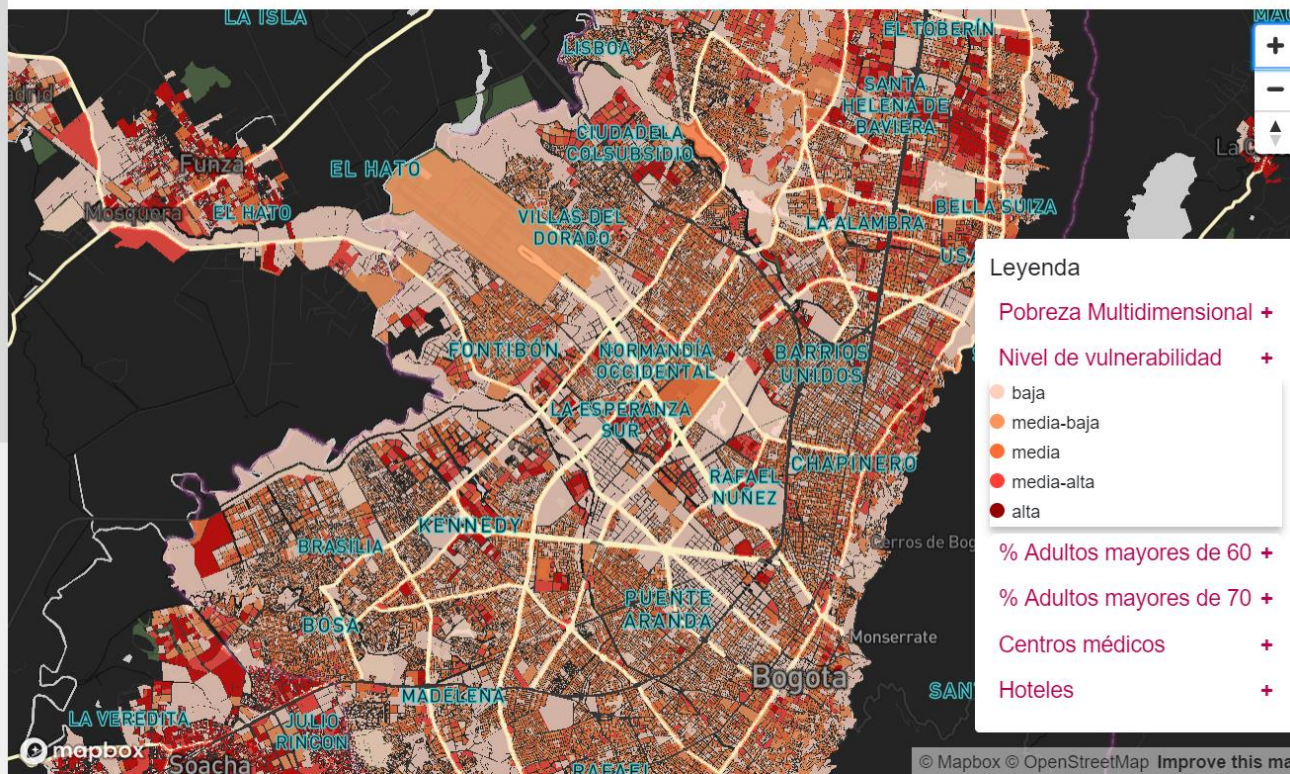🚹 % Adultos mayores de 60 años   +

🚹 % Adultos mayores de 70 años   +

🏠 Centros médicos   +

🏥 Hoteles   +

≡   Grupos por niveles de vulnerabilidad
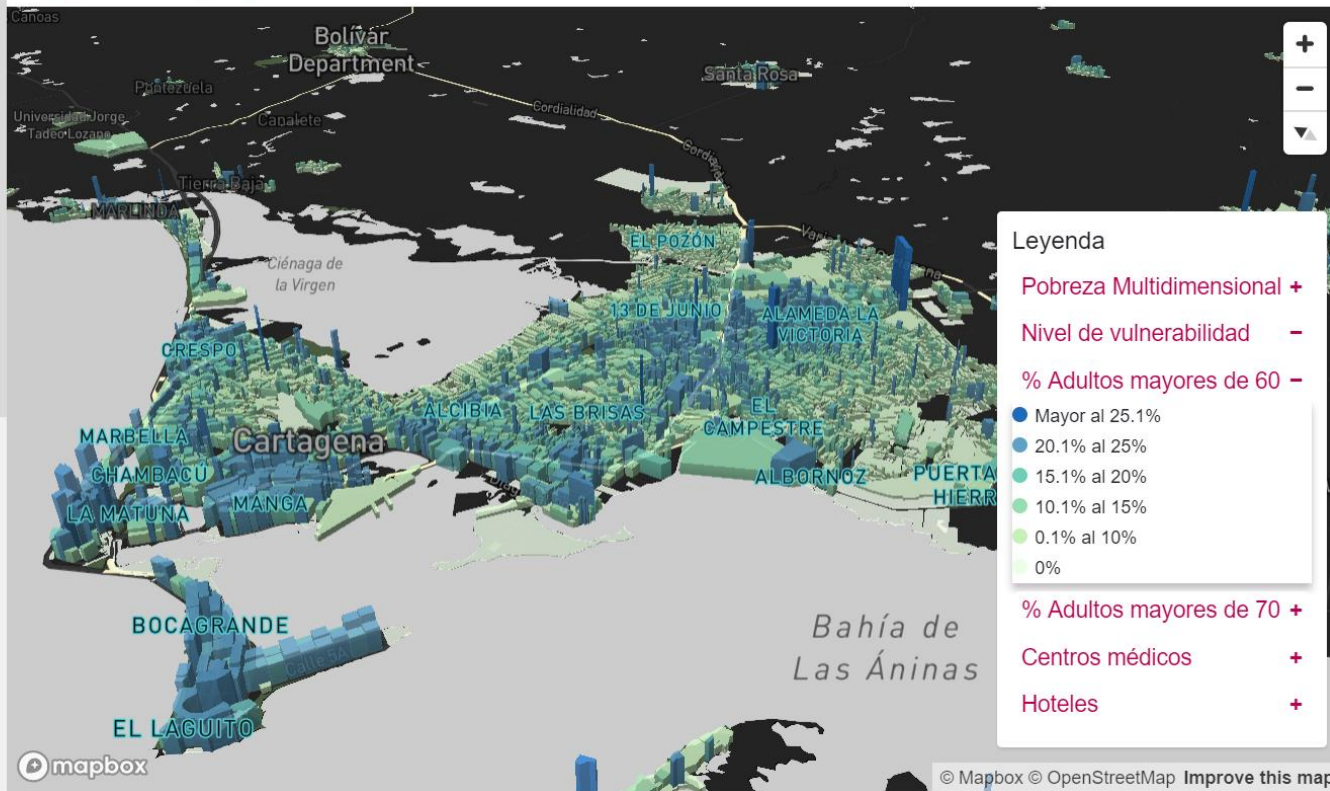
Leyenda

Pobreza Multidimensional +

Nivel de vulnerabilidad +

　○ baja
　● media-baja
　● media
　● media-alta
　● alta

% Adultos mayores de 60 +

% Adultos mayores de 70 +

Centros médicos   +

Hoteles   +

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Applications

▶ Georeferencing COVID cases and identification of the relation with the vulnerability index

▶ Analysis of spatial and temporal evolution of cases

▶ Intervention strategies in the territory
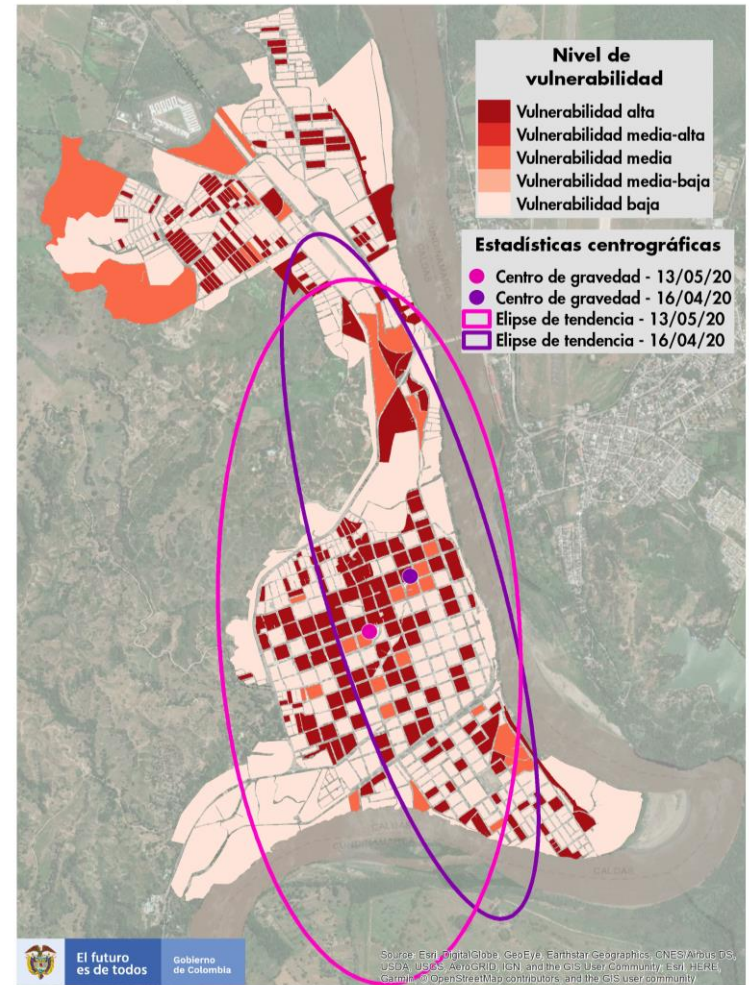
Applications: Areas for special attention
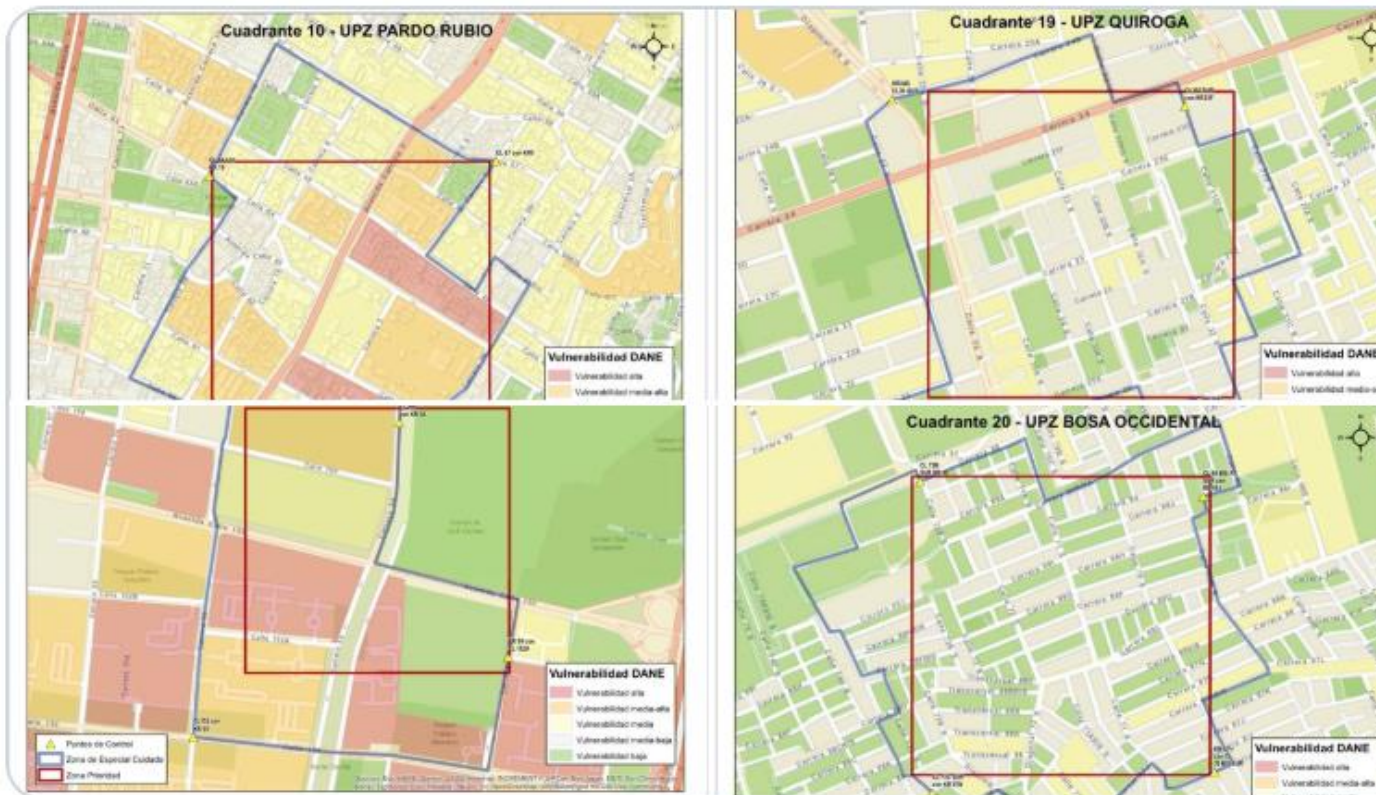
Gracias

Departamento Administrativo Nacional de Estadística

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