

Modernizing official statistics in Latin America: the way forward

Bogotá, Colombia

Noviembre 2017

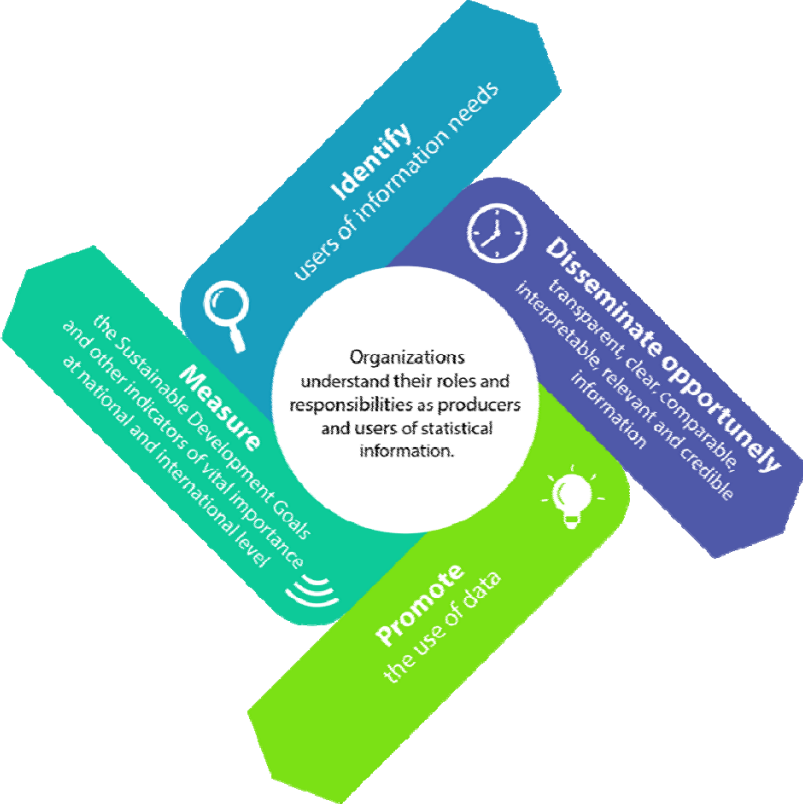
www.dane.gov.co



Strengthening National Statistical Systems as Models of cooperation and collaborative work is the way forward



Open communication channels



Use of the information produced by other stakeholders, as public agencies and civil society organizations



National Statistical Systems are demanded new and granular information to measure emerging phenomena, relevant to their citizens



Goals:

- Citizens and stakeholders more/better informed
- Up to date and timely information
- Geospatial and statistical information integrated and usable



In Colombia, the NSS allows us to improve the availability, quality, consistency and comparability of statistics and to reduce the duplication of efforts.



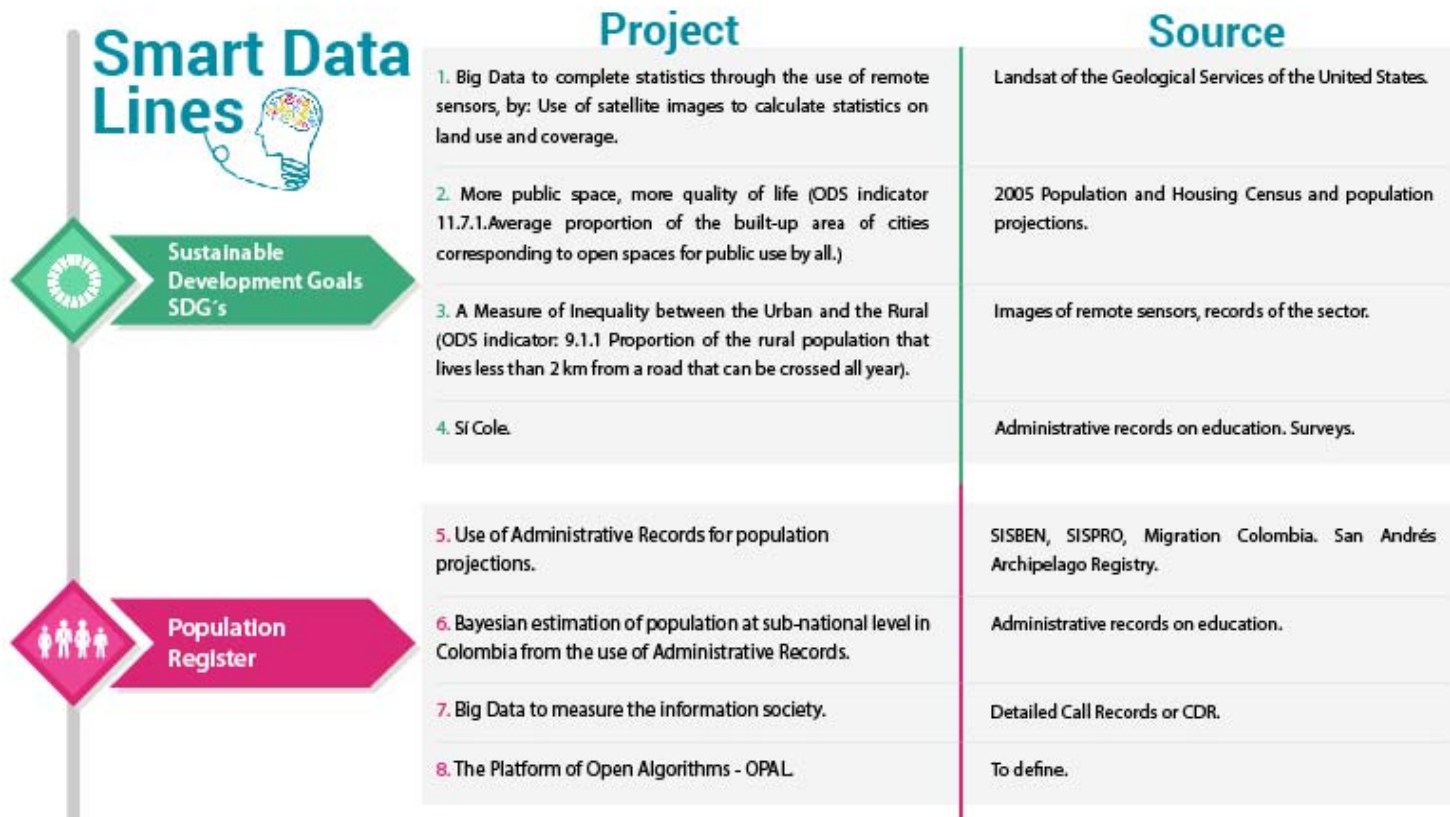
COORDINATION INSTRUMENTS



The National Statistical Plan (PEN) is the five-year roadmap that will guide the entities of the NSS in the strengthening of the statistical activity in Colombia, establishing strategies and actions.



The NSS is the scenery to promote the exploration of new sources of information. DANE has focused its efforts on the promotion of the Smart Data strategy.



The Smart Data strategy has five lines of actions, there are projects associated to each line that involves non-traditional sources and methods.



Smart Data Lines



Project

Source

9. Web scraping for CPI (Consumer Price Index).	Web pages Downloads .
10. Collection by Scanner Data for CPI.	Databases of products sold from large stores.
11. Longitudinal Base of Companies for Colombia.	Administrative records on companies. Surveys.
12. Updating of the urban levels of the National Geostatistical Framework, incorporating the variables of building, population and housing through the use of Administrative Records.	Geo-referenced records.
13. Big Data as an input for updating the Statistical Directory of Companies, using data extraction techniques of pages web. ultricies ullamcorper.	Web pages Downloads .
14. Measurement of subjective poverty using social networks.	Social networks.
15. CIUO for all (Automated classification with Machine Learning of the variable occupation in household surveys).	Machine Learning about household surveys.

Source: DANE

The way forward also demands to focus on strengthening and creating capacities and skills from our human resources, as well as on updating and improving our technological infrastructure.



Technological infrastructure

Components that allows processes to be developed in the most optimal way:

- Good processing times
- High degree of security

Human resource

Multidisciplinary teams who have the ability to face challenges in a creative and transformative way

Execution of collaborative projects promotes the supply of courses of production and statistical dissemination:

- Web scraping
- Machine learning
- Bayesian methods
- Design an implementation of web surveys



Strategic Partnerships are fundamental for building trusted data collaboratives, and therefore for promoting the modernization and innovation to be embedded in the statistical process



International organizations for research and development of methodologies

GPSDD – thematic and methodological experts
NASA – Availability of satellite images
OPAL – open algorithms – development of open and available applications
CEPEI - statistical culture, data journalism



Public sector

Ministry of Health and Social Protection
– Social Security Register
Superintendence of Notaries Public and registries – Land use register
Ministry of Industry, Trade and Tourism
- National Tourism registry
- National planning Department
- Ministry of ICT

Private sector

National Confederation of Chambers of Commerce
– Single Business Registry
CLARO (Mobile phone operator)

Slide 8

6

Agregue la definición en inglés de los acrónimos

Xime Diaz, 29/10/2017

DANE has a ambitious agenda in the short run. Our efforts are focused on innovating in our population census, exploiting administrative records and using geospatial information for SDG



National Housing and population census 2018:

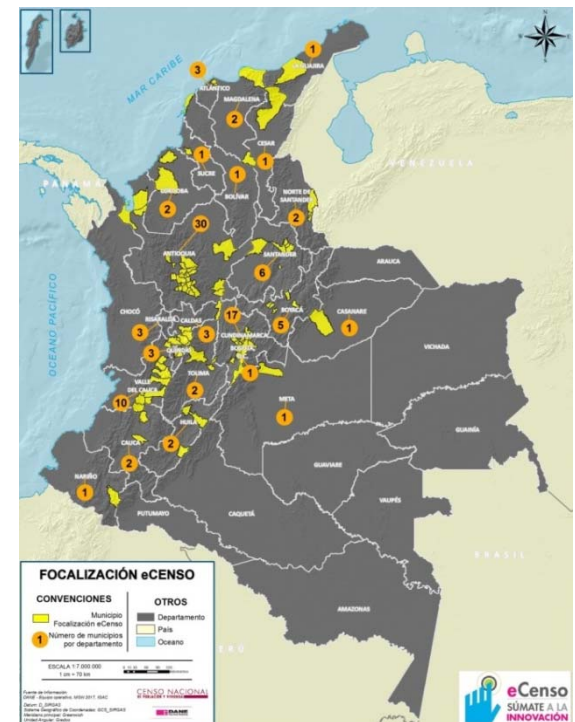
- Implement, for the first time, an electronic census (eCenso), through a digital platform which includes tools to address audiovisual disabilities

Administrative records

- Promote the extensive and intensive use of administrative records for statistical production. For example, using panel data from the social protection records (firm and individuals) and companies' information (firm)

Geospatial information for SDG monitoring

- Scale up our pilots of using geoespatial data sources to monitor SDG specific indicators
- Strengthen work streams with key partners (as GPSDD, NASA, GEO and academia) to explore alternative technology and data sources to fill data gaps



The eCensus is the new strategy for information collection in t2018: usability and accessibility, key aspects of this innovation tool



eCENSO NACIONAL
DE POBLACIÓN Y VIVIENDA 2018 - COLOMBIA



CONFIGURE SU
PÁGINA
X Cerrar



L.S.C

A+

Letra grande



Color de fondo



Restaurar a
configuración
inicial

¡Participe y cuéntenos!
¿Cómo se vive en Colombia?

Crear su cuenta en el censo digital le permitirá al estado conocer las necesidades de todos los colombianos y así destinar de la mejor forma los recursos del país.

¿Por primera vez aquí?

[CREAR MI CUENTA](#)

[Quiero saber más sobre el Censo](#)

[Sus datos están protegidos](#)

[Conozca la ley de reserva estadística](#)

[Ver términos y condiciones](#)

Si ya tiene una cuenta ingrese aquí

Escriba su correo electrónico

Escriba su contraseña

[INGRESAR](#)

[Olvidé mis datos](#)

To disseminate SDG data, DANE and DNP are working on a digital portal to allow users to track SDGs implementation at national and subnational levels



www.ods.gov.co



The digital portal includes:

- Data by indicator, for each SDG.
- Regional disaggregation.
- Interactive visualization.
- Information related to the implementation of SDGs.
- Stories.

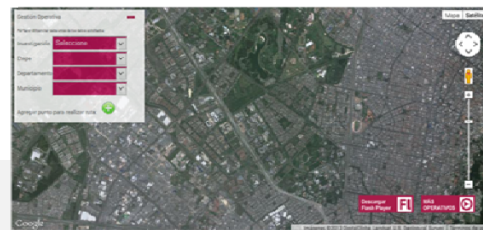
DANE is in charge of the integration, update and interoperability of the data to be visualized on the digital portal



DANE is strongly developing its capacity to use and share geospatial information. Our **Geoportal** integrates statistical and geospatial sources to add value for field work monitoring, visualization and data analysis



Monitoring and control systems for the field operations of censuses and surveys.

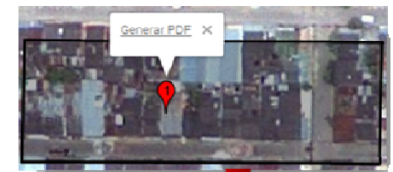


Routing

Select statistical operation



Select Sample



Context information



Map with Geolocation



Functionalities:

- Geovisor
- Visualization lab
- Data and metadata

<https://geoportal.dane.gov.co/v2/>





@DANEColombia



@DANE_Colombia



/DANEColombia



/DANEColombia



DANEColombia