



4TH INTERNATIONAL CONFERENCE ON

BIG DATA

 *for Official Statistics*

8-10 NOVEMBER 2017
BOGOTA, COLOMBIA





ICT STATISTICS: The search for new data sources

Ministry of Information Technology and Communications

November 2017

THE UNITED NATIONS GLOBAL WORKING GROUP ON BIG DATA

Agenda



- **Background**
- **The new information needs of ICT Sector**
- **Public-Private Partnerships**
- **Future works**

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Background

ICT statistics from surveys



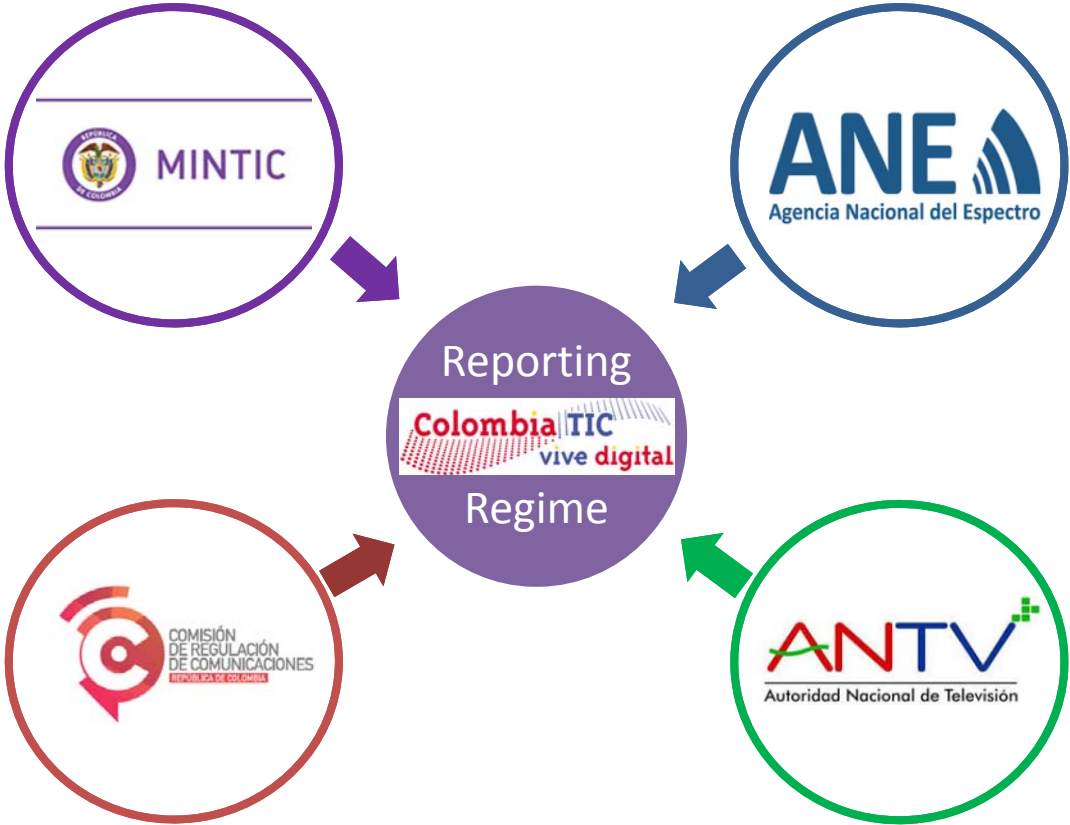
ICT statistics from Administrative Records



Sector reporting regime



Sectoral Information Reporting Regime



Sectoral Information Reporting Regime



It consists of:

- ✓ 5 administrative acts for Sectoral Information Report
- ✓ More than 80 information reporting formats
- ✓ More than 800 fields for reporting information
- ✓ Millions of records reported periodically

(Monthly, quarterly, semi-annual, annual and eventual)

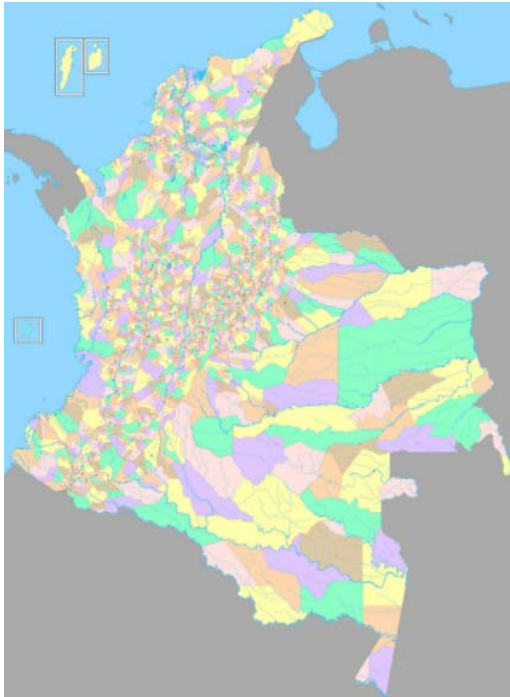
**Information Needs for Decision Making and Generation of
Public Policy**

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The new information needs of the ICT Sector



- ✓ Statistics at municipality level, including at the level of the population center.
- ✓ Availability of specialized statistics. (Possession and use of ICT by geographical area).
- ✓ Mapping the population dynamics (mobility and ICT consumption)
- ✓ Availability of ICT statistics with a lag of information no longer than 15 days.



Expand the Reporting Regime?

The new information needs of the ICT Sector

Use of Big data for the generation of statistics



- Greater precision in the calculation of indicators
- Use of different sources of information

Examples of use

- Mobility patterns from CDRs (they would not be possible to obtain otherwise)
- IT consumption preferences (mobile equipment brands).
- Greater detail in population distribution.

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Public-Private Partnerships

More than
100 PRST



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Governance of data



ICT Statistics

Public-Private Partnerships



Challenges:

- Commitment of stakeholders (Government Sector and Telecommunications Network and Service Providers).
- Confidence in the handling of confidential information.
- Technological Infrastructure (Data Center)
- Access to data - handling of personal data.
- Agreement on the publication of results (aggregated or specific)

Confidentiality agreements in the Public-Private Partnerships for the generation of ICT Statistics based on the analysis of large volumes of data (BIG DATA)

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Future works



Determine the viability of using big volumes of data as data source to generate the official statistics of the ICT sector, aiming to eventually replace the current sectoral information reporting regime.

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