

# Information and Communication Technologies Satellite Account (CSTIC according to its acronym in Spanish)

National Administrative Department of Statistics – DANE according to its acronym in Spanish

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November / 2022



GOBIERNO DE COLOMBIA



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# Objectives and scope





## Objective

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Expand the measurement of Information and Communication Technology-related activities, within an extended analytical framework of the System of National Accounts, as a tool for decision-making and economic policy formulation.

## Specific objectives

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- Generate macroeconomic aggregates to describe the magnitude and economic importance of the ICT sector, such as production, added value and operating surplus.
- Provide non-monetary statistical indicators of context associated with the ICT sector such as employment in ICT activities and indicators of ICT ownership and use in ICT characteristic activities.
- Provide statistical information for the formulation, monitoring and evaluation of public policy that allows decisions to be made in economic and social matters.



# CSTIC Scope



## Law 1978 of 2019, Article 5 \*

Information and Communication Technologies (ICT) are "the set of resources, tools, equipment, computer programs, applications, networks and media, which allow the compilation, processing, storage, transmission of information such as: voice, data, text, video and images"

ACTIVITIES  
CHARACTERISTICS  
ISIC Revision 4 A.C

TELECOMMUNICATIONS

IT SERVICES

CONTENT AND  
MEDIA

ICT TRADE

ICT INFRASTRUCTURE

ICT  
MANUFACTURING

## 19 CHARACTERISTIC PRODUCTS

CPC version 2 A.C

\* Law 1978 of 2019, modifies article 6 of Law 1341 of 2009

## CSTIC Scope

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### Goods

- Computers and peripheral equipment
- Communication equipment
- Consumer Electronic Equipment
- Other ICT goods and components
- Civil works in Telecommunications Infrastructure
- ICT trade

### 19 CHARACTERISTIC PRODUCTS

CPC version 2 A.C

Good or service whose function is to enable the processing and communication of information by electronic means or to use electronic processing, including transmission and display.



### Services

- Fixed telephony services
- Mobile-phone services
- Other telecommunications services
- Internet telecommunications services
- Manufacturing services for ICT equipment
- Business Software and Licensing Services
- Information Technology Services and Consulting
- Rental or leasing services of ICT equipment
- Other ICT services
- Program distribution services in basic and controlled packages of programming and movies (pay per view)
- Gaming Software
- Online Content and Related Services
- Other related content and services

# International references

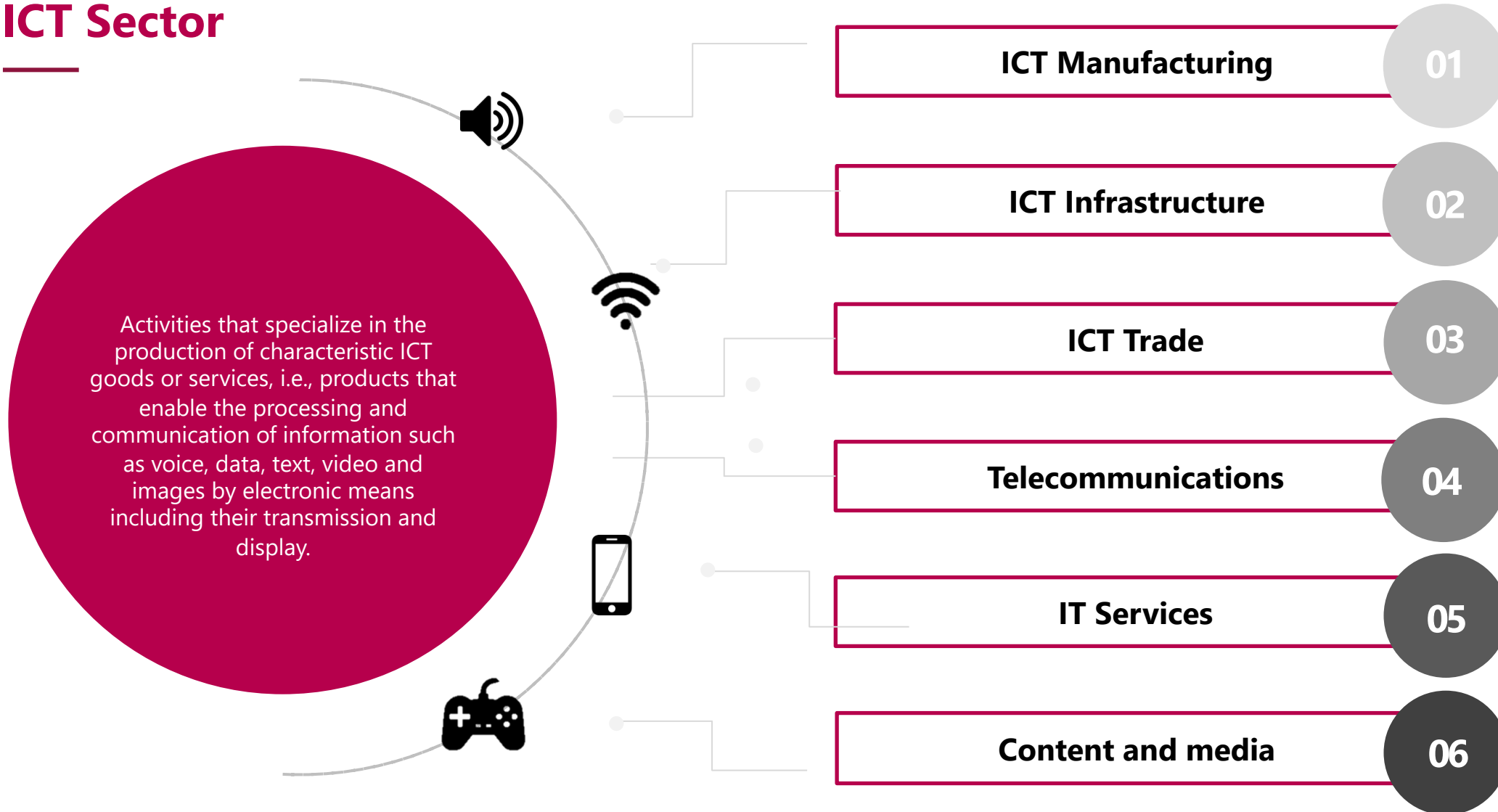


# Classification of characteristic activities and products





# ICT Sector





# ICT Manufacturing

It comprises activities that include the manufacturing processes of ICT goods that allow the compilation, processing, storage, transmission of information such as voice, data, text, video and images, except for white goods.



## Computers and peripheral equipment

- ATMs
- Laptops or desktops,
- Personal agendas or tablets
- Peripheral input units (keyboard, joystick, mouse; etc..)
- Scanner or printers
- Monitors and projectors, other machines for data processing
- Permanent data storage devices in solid state
- Parts and pieces



## Communication equipment

- Transmitting apparatus
- Other telephone devices
- Parts and pieces
- Landline telephones
- Telephones for cellular or other wireless networks
- Television cameras



## Consumer Electronic Equipment

- Video game consoles
- Video recorders (analog or digital)
- Radio receptors
- TVs
- Apparatus for recording and reproducing sound and/or video
- Microphones and their supports
- Parts and pieces



## Other ICT goods and components

- Sound, video, network and similar cards
- Printed circuits and electronic integrated circuits
- Thermionic valves and tubes, diodes, transistors and semiconductor devices
- Unrecorded magnetic or optical media



## ICT Infrastructure

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Activities that include construction in ICT civil engineering works, that is, constructions that allow storing or transmitting information by means of voice, data, text, video and images.



### Civil works in telecommunications infrastructure

- Works for long-distance communication
- Construction, maintenance, repair and adaptation of:
  - ✓ Communications infrastructure
  - ✓ Fiber optics
  - ✓ Mobile or fixed telephony infrastructure



## ICT Trade

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It includes activities that include the marketing of ICT goods, including wholesale and retail trade in goods that enable the compilation, processing, storage and transmission of information such as voice, data, text, video and images, except for white goods.



### ICT Trade

This product represents the commercialization of tangible goods such as:

- Wholesale and/or retail services of radio, television, sound reception or recording apparatus, integrated computers and software, electronic and telecommunications equipment and parts thereof.





## Telecommunications

Activities that include the transmission, emission or reception of signs, signals, writings and sounds, data or information of any nature, by wire, radio, visual media or other electromagnetic systems; Its production is mainly characterized by the transmission of content, without intervention in its creation.



### Fixed telephony services

- Access, use and special functions of fixed telephony as well as operator services



### Mobile-phone services

- Mobile telephony access and use services such as voice, text and data, as well as special functions



### Other telecommunications services

- Installation, maintenance and/or repair of antennas, telecommunications services and other telecommunications

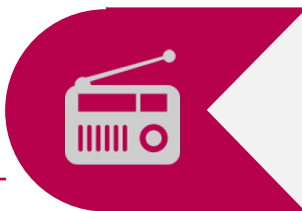


### Internet telecommunications services

- Private network services
- Basic Internet services
- Broadband and/or narrowband
- Internet access
- Data transmission service

# IT Services

Activities including specialized services in the field of information technology for software publishing, information systems development, information services and IT management consulting, through applications, information and infrastructure.



## Manufacturing services for ICT equipment

- Boards and electronic components
- Computers and peripheral equipment
- Communication equipment
- Magnetic and optical media



## Business Software and Licensing Services

- Software package usage licenses Software Use Rights
- Genuine software
- System or application software download services, and online software



## Information Technology Services and Consulting

- IT consulting, support and management
- IT design and development for applications, networks and systems (custom software, applications, websites)
- Web Hosting
- Provision of application services
- Other hosting services and provision of IT infrastructure
- Management of networks and computer systems



## ICT equipment rental or leasing services

- Computers
- Telecommunications equipment
- Televisions, radios, video recorders, equipment and related accessories



## Other ICT services

- Engineering services for telecommunications and broadcasting projects
- Maintenance and repair services for computers, peripheral equipment, and telecommunications equipment
- Installation services for computers, peripheral equipment, radio, television and communications equipment



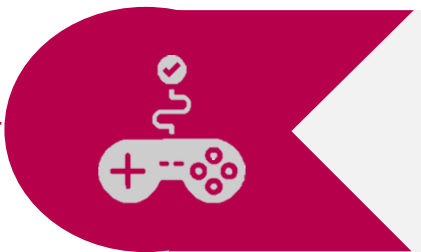
## Content and media

Activities that include the production, publication and/or electronic distribution of content (information, cultural and entertainment products) as an organized message intended for people and published in mass media and media-related activities and their value to the consumer lies not in their tangible qualities but in their information.



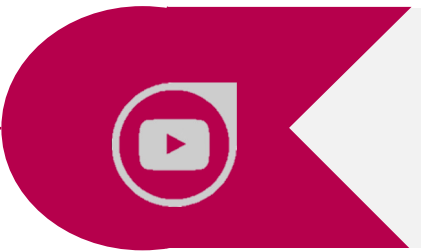
### Program distribution services in basic packages, movies (pay per view) and radio

- Program distribution services, in basic programming package, in controlled programming package, distribution of programs and movies pay per view
- Radio program transmission and programming services



### Gaming Software

- Software cards for video game consoles
- Software packages for computer games
- Online gaming services



### Online Content and Related Services

- Right to use databases
- Sale of advertising space on the internet
- Mailing listing and online directory services
- Music and/or movie download services
- Audio and video content streaming services



### Other related content and services

- Original compilations of data or information
- Other information services

# Dissemination





# Dissemination on Website

## Published products:

- Production matrix
- Production and income generation accounts
- Work matrix
- Balance sheets offer use
- ICT Indicators

## Documentation:

- Methodological sheet
- Methodology

## Historical information:

- Series 2014 – 2017<sup>P</sup>
- Series 2014 – 2019<sup>pr</sup>
- Series 2014 – 2020<sup>pr</sup>



<https://www.dane.gov.co/index.php/estadisticas-por-tema/cuentas-nacionales/cuentas-satelite/cuenta-satelite-de-las-tecnologias-de-la-informacion-y-las-comunicaciones-tic>

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# Main results 2020<sup>p</sup> – 2021<sup>pr</sup>



# Total ICT characteristic activities

## Production and income generation accounts

### Values at current prices

Concepts	Value (millions of pesos)		Growth rates (%)	
	2020 <sup>P</sup>	2021 <sup>Pr</sup>	2020 <sup>P</sup> /2019	2021 <sup>Pr</sup> /2020 <sup>P</sup>
<b>1. Production account</b>				
P.1 Production	72,717,825	80,468,438	-0.2	10.7
P.2 Intermediate consumption	36,251,729	40,307,094	-2.8	11.2
<b>Gross added value</b>	<b>36,466,096</b>	<b>40,161,344</b>	<b>2.5</b>	<b>10.1</b>
<b>2. Income generation account</b>				
D.1 Compensation of employees	13,669,958	15,227,054	0.2	11.4
D.11 Wages and salaries	11,953,121	13,335,630	0.1	11.6
D.12 Social contributions from employers	1,716,837	1,891,424	0.6	10.2
D.2 - D.3 Taxes minus subsidies on production and imports	1,454,028	1,620,911	-1.4	11.5
<b>B.2b - B.3b Gross operating surplus / Gross mixed income</b>	<b>21,342,110</b>	<b>23,313,379</b>	<b>4.4</b>	<b>9.2</b>

Source: DANE - Ministry of Information Technology and Communications. ICT Satellite Account

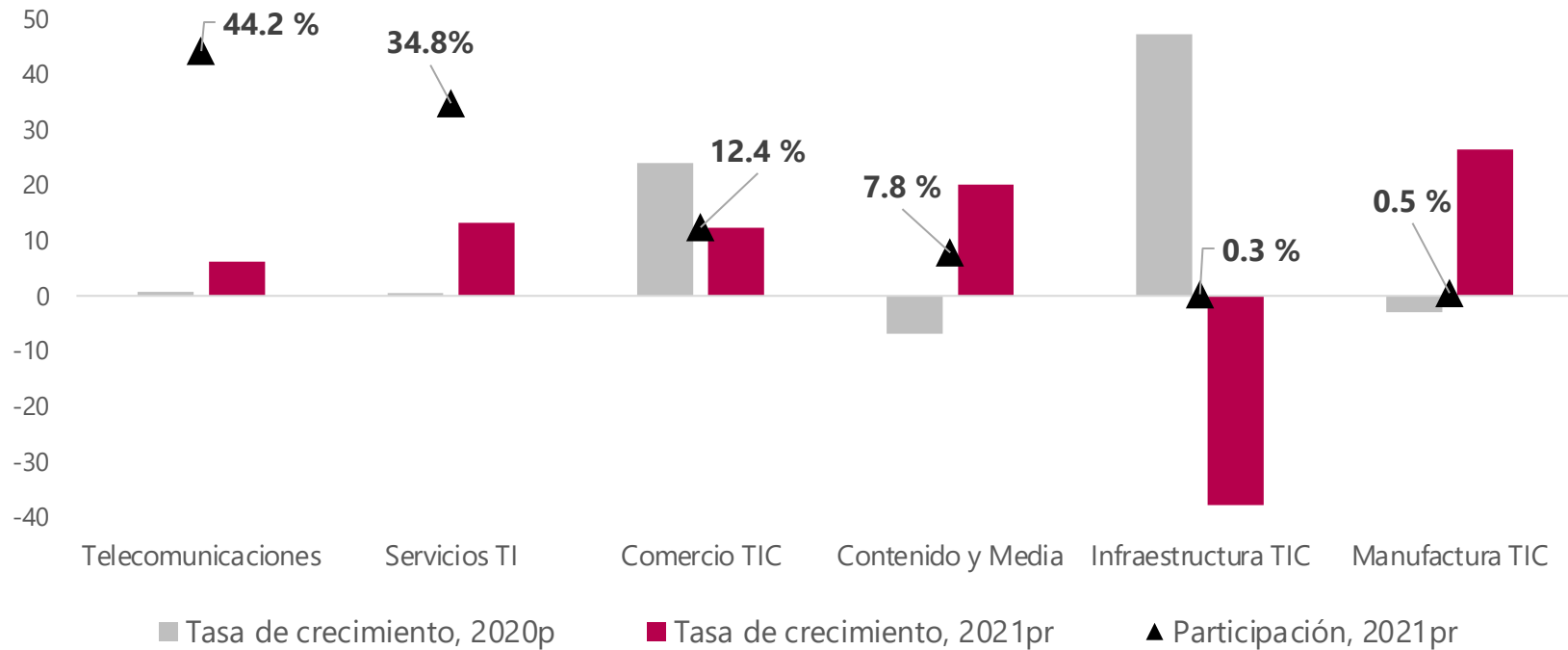
<sup>P</sup> provisional  
<sup>Pr</sup> preliminary

## ICT Sector

### Added value of characteristic activities

Values at current prices

**Growth rate (%) and share of value added of characteristic activities (2020<sup>p</sup>-2021<sup>pr</sup>)**



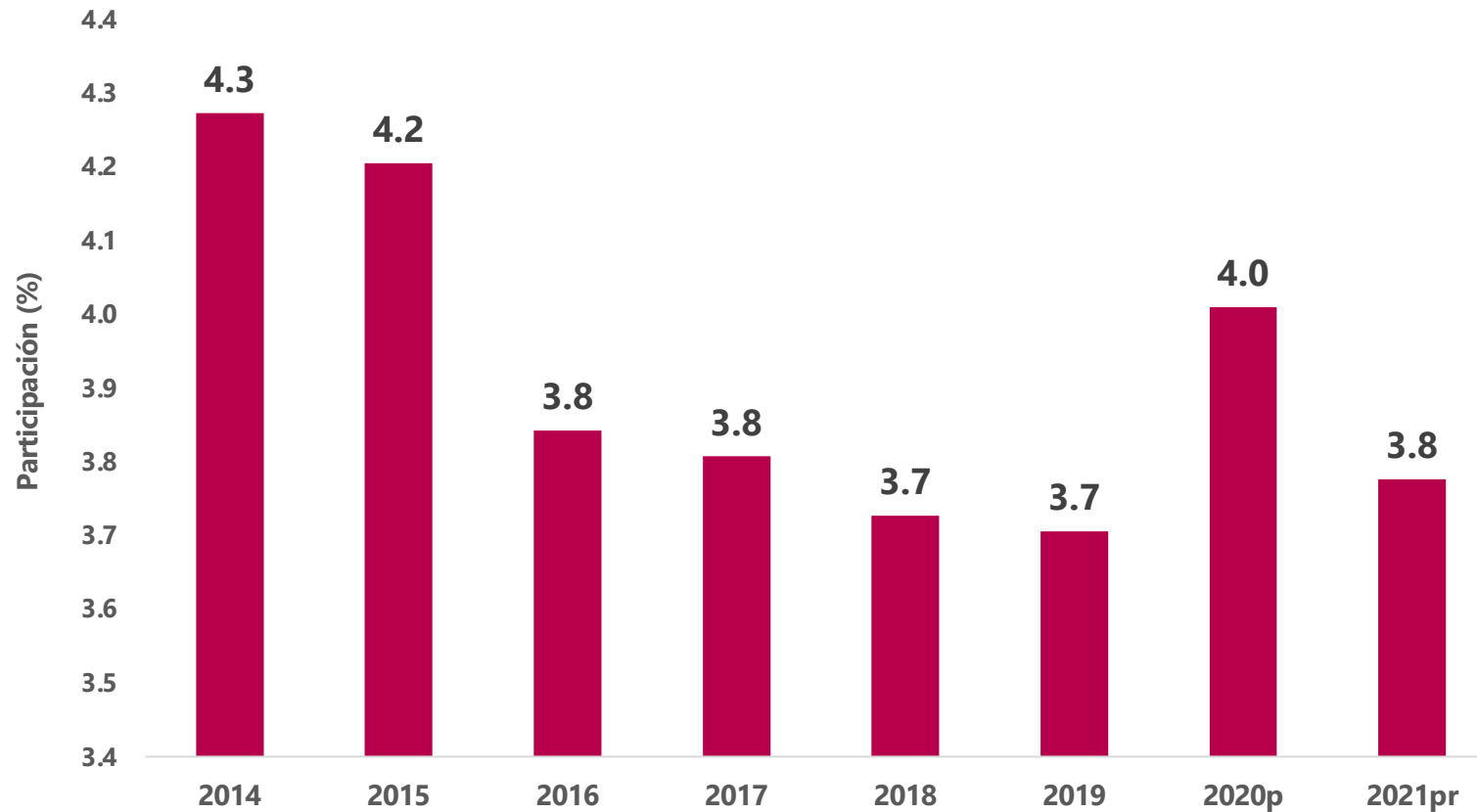
- The added value of the characteristic activities, for 2021, was 40,161,344 million pesos.
- The group of activities presented a growth of 10.1% in 2021, and a growth of 2.5% in the provisional 2020.

Source: DANE - Ministry of Information Technology and Communications. ICT Satellite Account  
<sup>p</sup> provisional  
<sup>pr</sup> preliminary





## Percentage share of value added of ICT activities in national value added



- The average share of value added of ICT activities in national value added since 2014 was 3.9%.
- The value added of ICT activities for the year 2021pr is similar in current values to the Electricity, gas, steam and air conditioning supply sector, i.e. 40 trillion.

Source: DANE - Ministry of Information Technology and Communications. ICT Satellite Account

<sup>p</sup> provisional

<sup>pr</sup> preliminary

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