

Outline

- Overview
- 1 Digital scenario
- 2 Demand side
- 3 Supply side
- **4** Regulation side



Overview

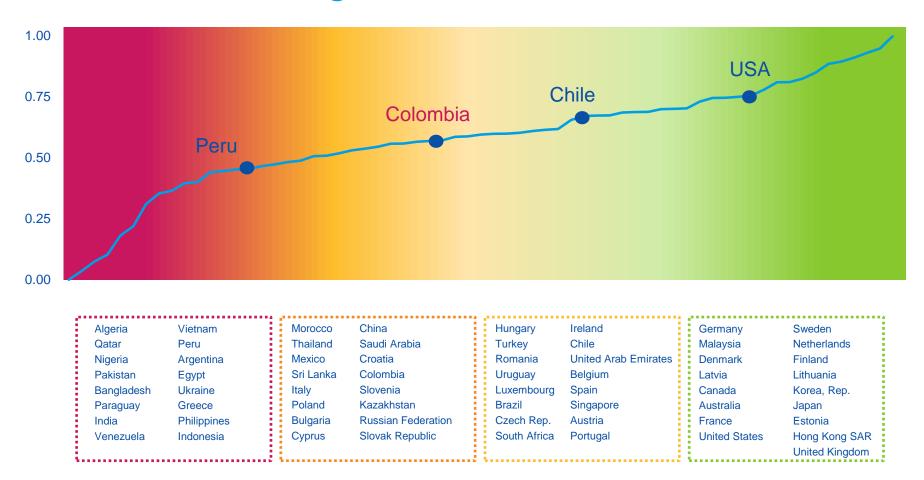
- ✓ Colombia occupies an important position in terms of digital content among Latin American countries
- ✓ Internet use is higher than computer use because of the widespread use of mobile devices
- ✓ The proportion of people using the Internet daily has increased considerably since 2014
- ✓ Home is the main place of Internet use, and home use is growing continuously
- ✓ Cost is considered the main constraint on Internet access, although
 this perception is weaker among young people
- ✓ The use of Internet for educational purposes is higher than in other countries of the region
- ✓ Bogota is the only region in Colombia where more than 10% of internet users use e-banking and e-commerce
- ✓ The number of mobile-broadband subscriptions increased by a multiple of 13 between 2009 and 2013





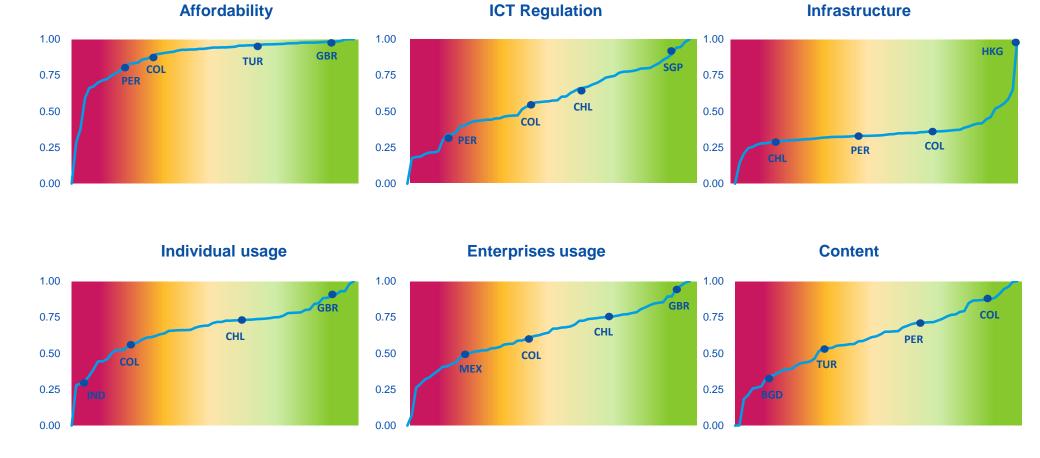


1.1. Structural digitisation index in 2015





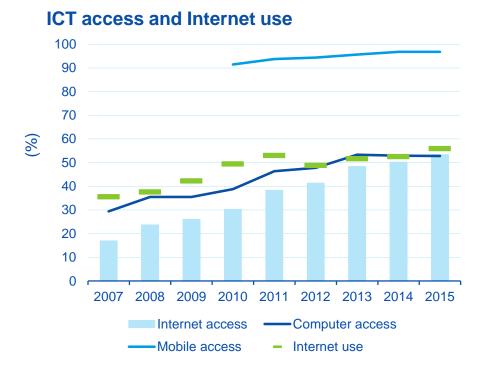
1.2. Structural digitisation index in 2015: by dimension

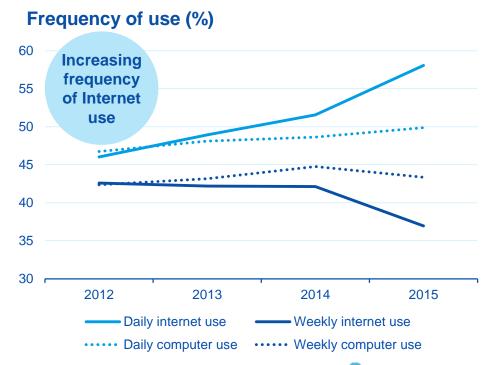






2.1. Computer and Internet: access at home and usage







Note 1: Use of Internet 2007-2011: in last 12 months/ Use 2012 ongoing: in last month Note 2: Percentages of access are related to the total households and the percentages of usage are related to the total population with Internet access

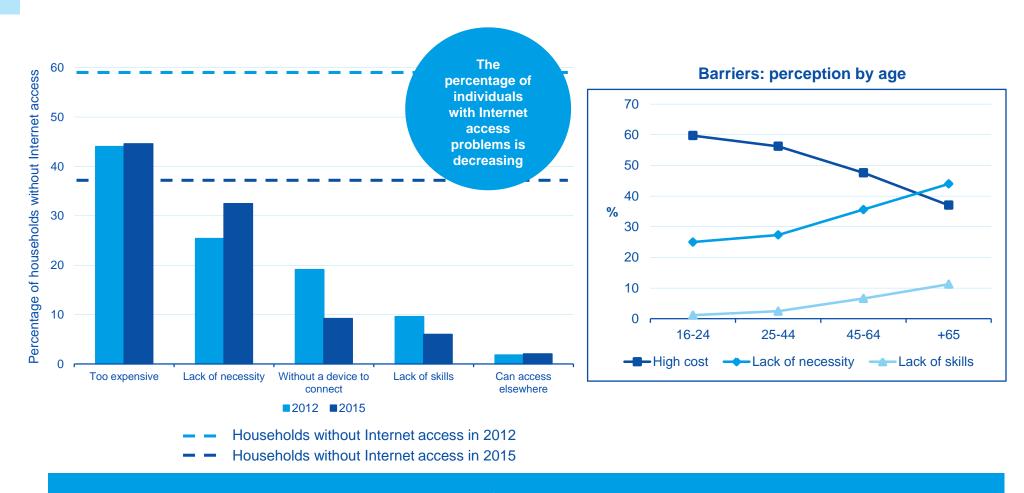


2.2. Internet access at home: growth by region





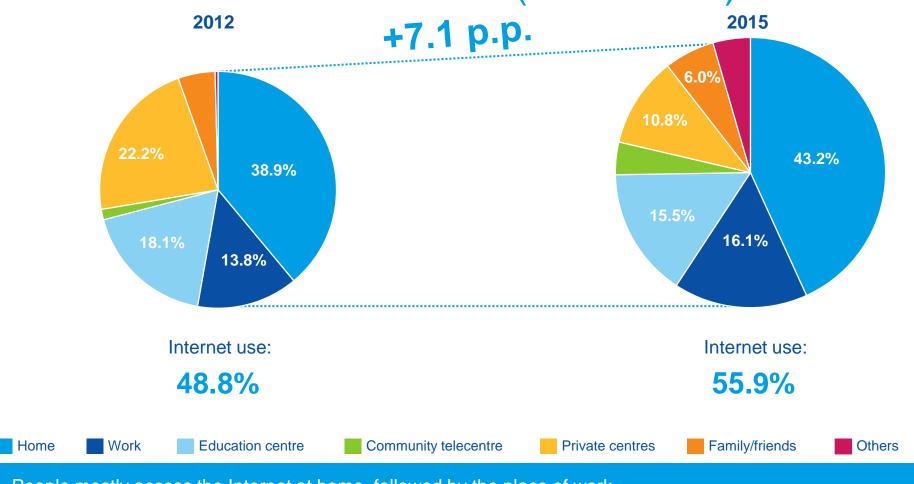
2.3. Barriers to home Internet access



The high cost is the main barrier to Internet access for households



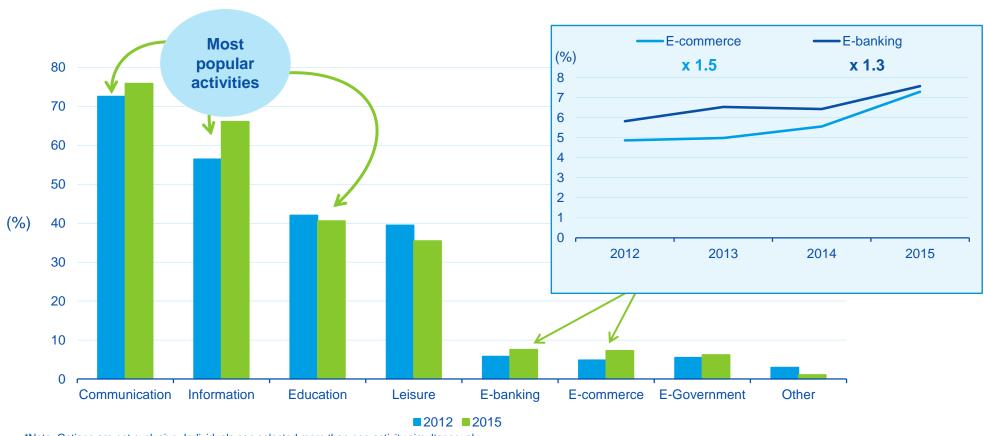
2.4. Places for Internet use (last month)



People mostly access the Internet at home, followed by the place of work



2.5. Internet activities: usage in last 12 months

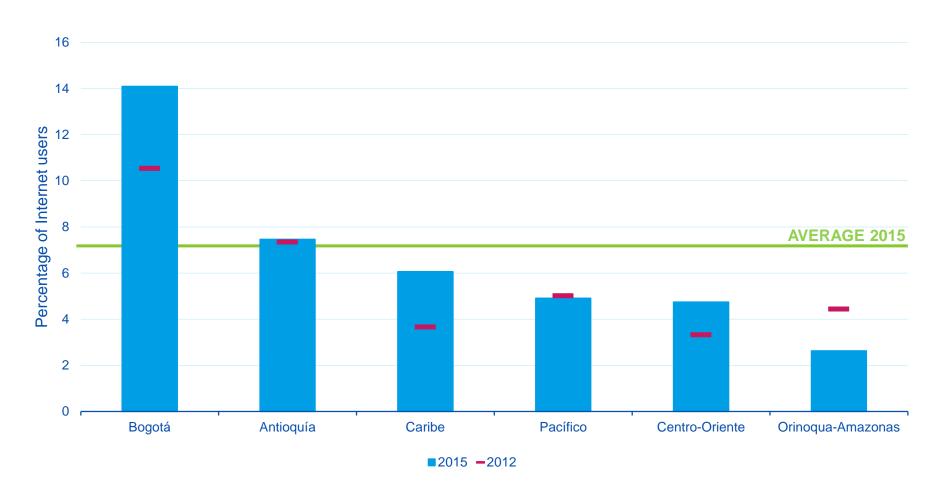


*Note: Options are not exclusive. Individuals can selected more than one activity simultaneously

Unlike other countries in the region, education is one of the most popular activities among Internet users

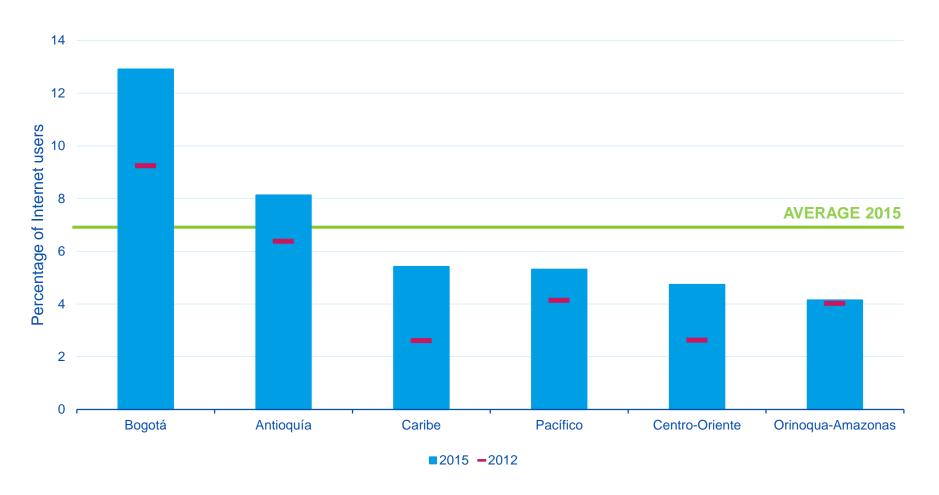


2.6. Online banking: changes by region



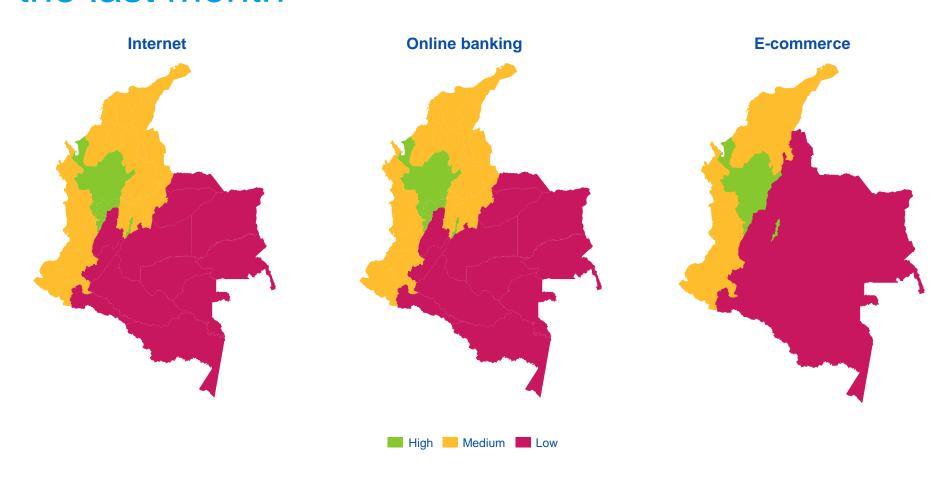


2.7. E-commerce: changes by region



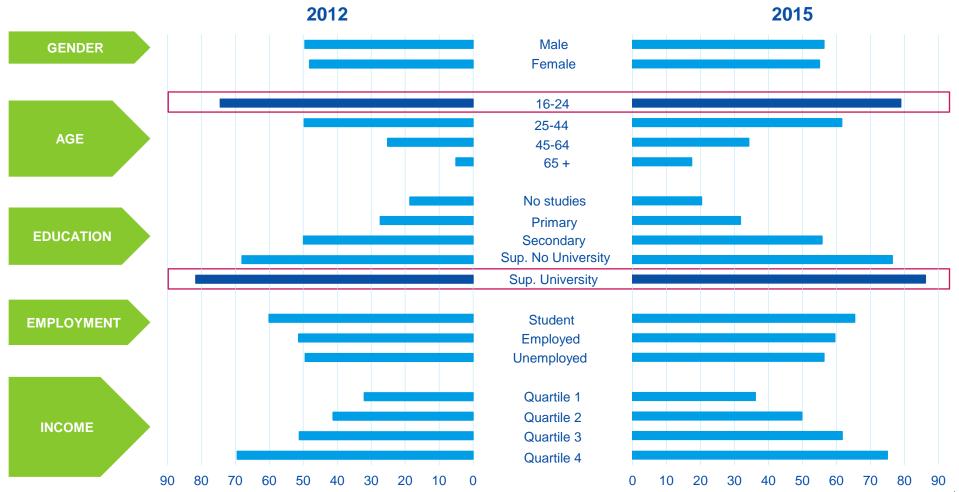


2.8. Geographical distribution in 2015: usage in the last month



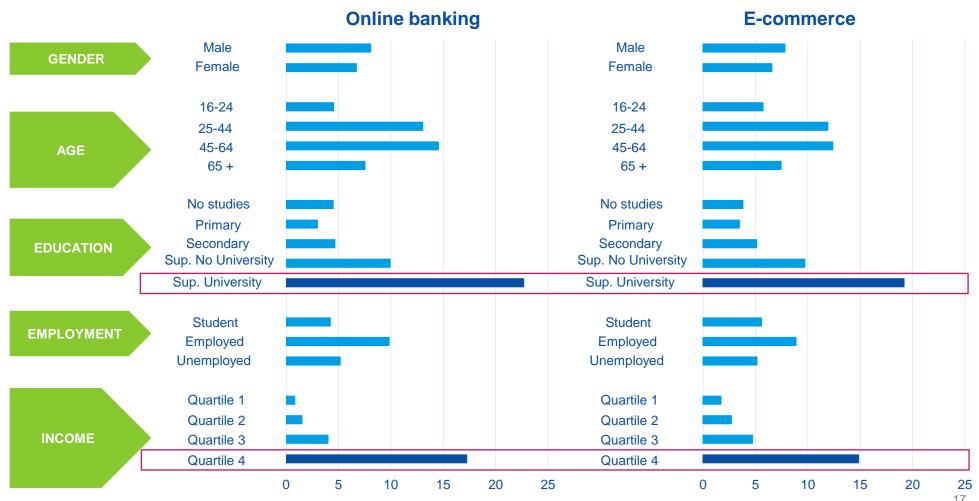


2.9. Population characteristics: Internet use (%)





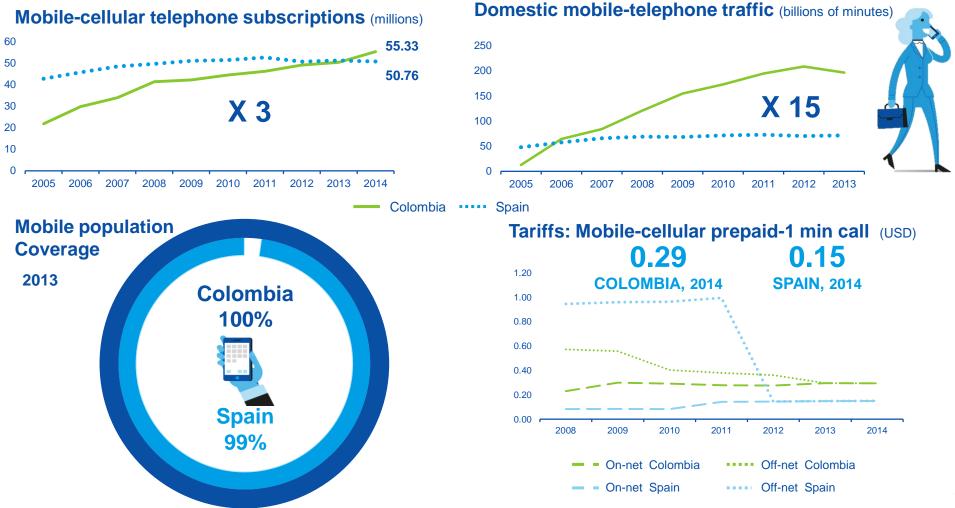
2.10. Population characteristics (% of Internet users, 2015)





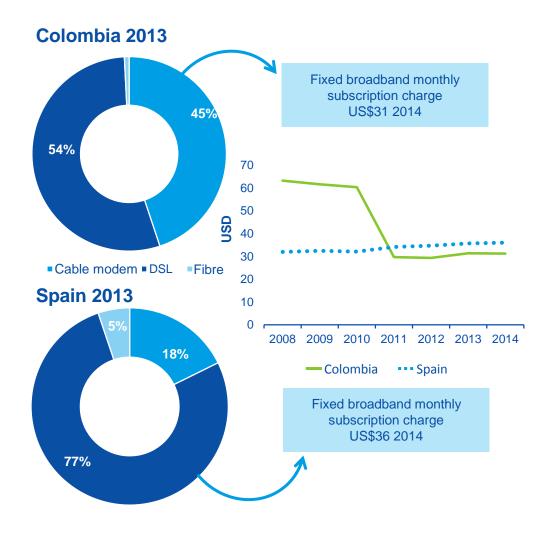


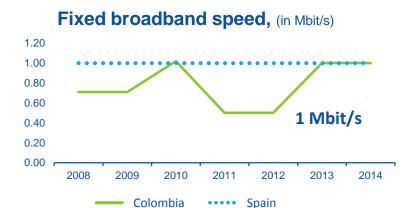
3.1. Mobile situation

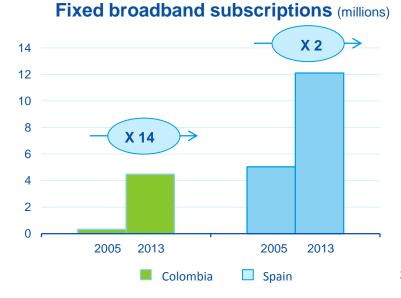




3.2. Fixed broadband









3.3. Wireless broadband

Total wireless broadband subscriptions (millions)



Mobile-broadband subscriptions (millions)





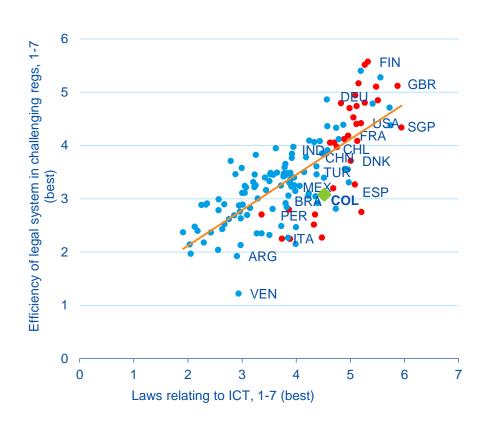
Note1: Numbers within the bars show the percentage of subscriptions per 100 inhabitants

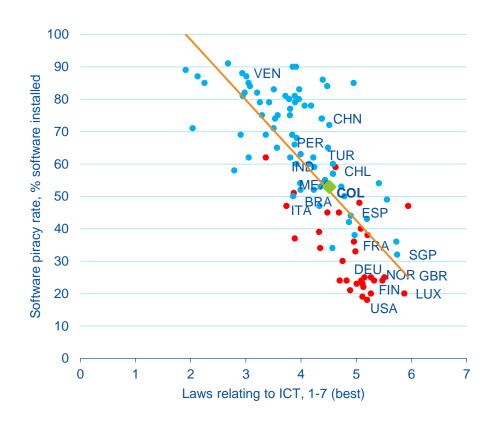
Note2: The wireless broadband indicator is comprised of subscriptions to broadband satellite, fixed wireless and mobile network





4.1. ICT laws: correlation between regulatory efficiency and piracy





Source: BBVA Research & World Economic Forum

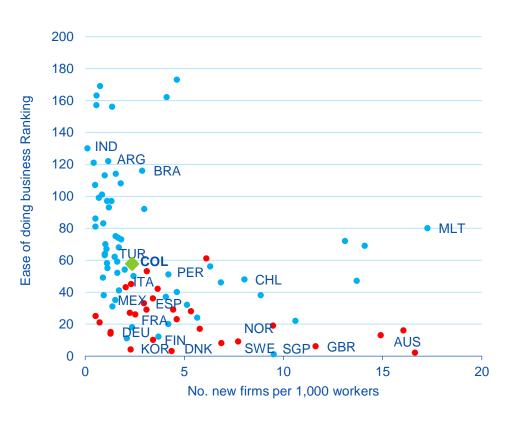
High income OECD countries

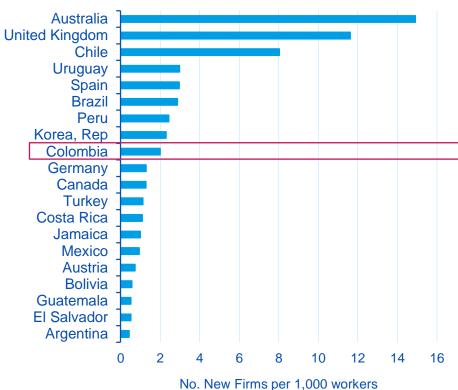
Source: BBVA Research & World Economic Forum

Rest (Colombia is highlighted in green)



4.2. Ease of doing business & entrepreneurship





Source: BBVA Research & World Economic Forum

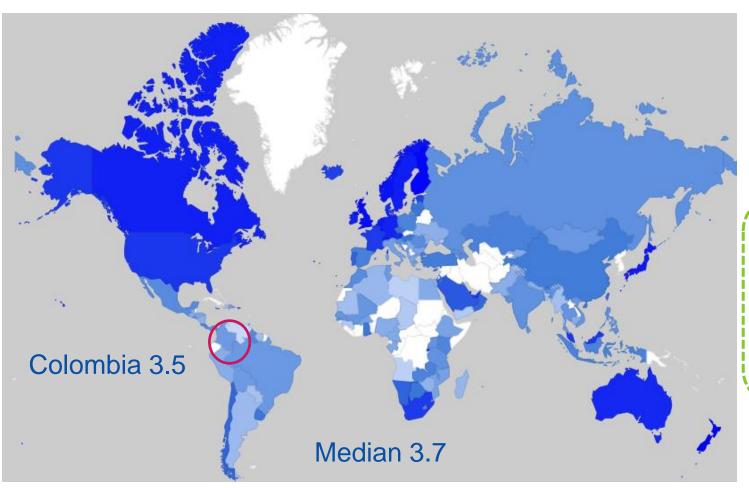
High income OECD countries

Source: Doing Business (World Bank Group)

Rest (Colombia is highlighted in green)



4.3. Political and regulatory environment



The political and regulatory environment of Colombia is similar to the global median

Weak Medium High No data

Source: BBVA Research & World Economic Forum, 2015





Composition of the Digitisation Index

Infrastructure

- ✓ Fixed (wired)-broadband speed, in Mbit/s.
- ✓ International Internet bandwidth. It is measured in bits per second per Internet user.
- ✓ Percentage of total population covered by a mobile network signal.
- ✓ International Internet bandwidth in megabits per second (Mbit/s).
- ✓ Active mobile-broadband subscriptions.
- ✓ Fixed (wired)-broadband subscriptions.
- ✓ Mobile telephone subscriptions
- ✓ Percentage of households with Internet access at home.
- ✓ Proportion of individuals that used the Internet in the last 12 months.
- ✓ How widely used are virtual social networks in the country?

Cost

✓ Monthly subscription charge for fixed (wired) broadband Internet service (PPP \$). Fixed (wired) broadband is considered to mean any dedicated connection to the Internet at downstream speeds equal to, or greater than, 256 kilobits per second, using DSL.

Regulation

✓ How developed are your country's laws relating to the use of ICT (e.g., electronic commerce, digital signatures, consumer protection)?

[1 = not developed at all; 7 = extremely well-developed]

Firms' adoption

- ✓ To what extent do businesses use ICT for transactions with other businesses in the country?
- ✓ To what extent do businesses use Internet for selling their goods and services to consumers in the country?
- ✓ To what extent do businesses adopt new technology in the country?

[1 = not at all; 7 = to a great extent]



✓ The Government Online Service Index assesses the quality of government's delivery of online services on a 0-to-1 (best) scale. There are four stages of service delivery: Emerging, Enhanced, Transactional and Connected. In each country, the performance of the government in each of the four stages is measured as the number of services provided as a percentage of the maximum services in the corresponding stage.



Source of data from the Demand Side: GEIH and ECV

Survey conducted by the National Administrative Department of Statistics (DANE) of Colombia since 2007

It is a special information and communication technology module (MTIC in the Spanish abbreviation) included in the abbual "Great Integrated Household Survey" (GEIH). From 2012 on, the information can be found in the Quality of Life Survey (ECV)

The main objective is to measure the coverage, access and use of information and communications technology in households and by individuals



Source of data from the Supply Side: World Telecommunication/ICT Indicators database (ITU, 2015)

The World Telecommunication/ICT Indicators database contains time series data for the years 1960, 1965, 1970 and annually from 1975 to 2014. These data are available for over 200 economies, however the availability of data for the different indicators and years can vary

The data are collected from an annual questionnaire sent to official economy contacts, usually the regulatory authority or the ministry in charge of telecommunication and ICT. Additional data are obtained from reports provided by telecommunication ministries, regulators and operators and from ITU staff reports

