

Outline

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



Overview

- Argentina has room for improving in terms of the Digitization Index, particularly ICT regulation and Internet use in enterprises
- Argentina's Internet use is close to that of developed countries, with a high frequency of use
- The prices of one minute call and fixed broadband monthly subscription in Argentina are higher than in developed countries
- Home is the main place for Internet access
- Cost is the main barrier for Internet access at home
- The use of e-banking and e-commerce is fairly widespread in Argentina.
 In both cases, it stands above 20% in 2014
- 67.3% of Argentina's population has a mobile-broadband subscription in 2015
- Argentina shows a high piracy rates and a low efficiency of the legal system
- Argentina needs to improve in terms of the ease of doing business ranking and entrepreneurship







1.1. Structural Digitization Index, 2015



Algeria Vietnam Qatar Peru Nigeria Argentina Pakistan **Egypt** Bangladesh Ukraine Greece Paraguay **Philippines** India Venezuela Indonesia

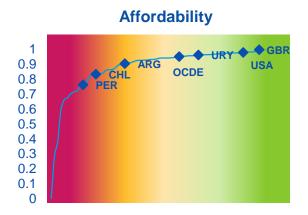
Morocco China Thailand Saudi Arabia Mexico Croatia Sri Lanka Colombia Slovenia Italy Poland Kazakhstan Russian Federation Bulgaria Cyprus Slovak Republic

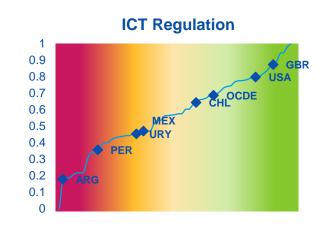
Hungary Ireland Turkey Chile Romania **United Arab Emirates** Uruguay Belgium Luxembourg Spain Brazil Singapore Czech Rep. Austria South Africa **Portugal**

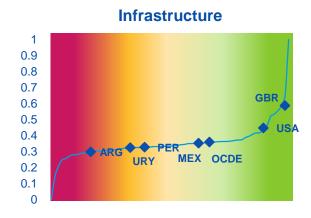
Germany Sweden Malaysia Netherlands Finland Denmark Latvia Lithuania Canada Korea, Rep. Australia Japan France Estonia **United States** Hong Kong SAR **United Kingdom**

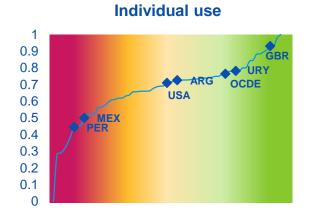


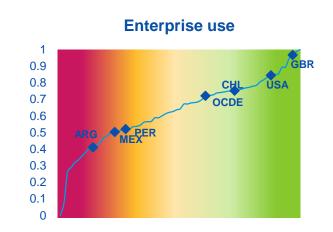
1.2. Digitization Index 2015: Dimensions

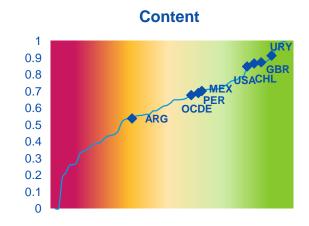










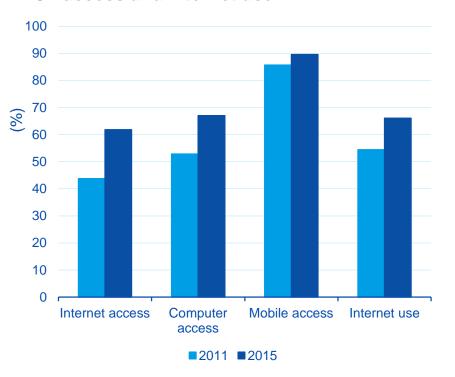




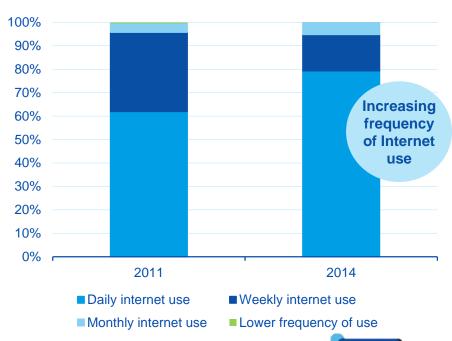


2.1. Computer and Internet: access at home and usage

ICT access and Internet use



Frequency of Internet use

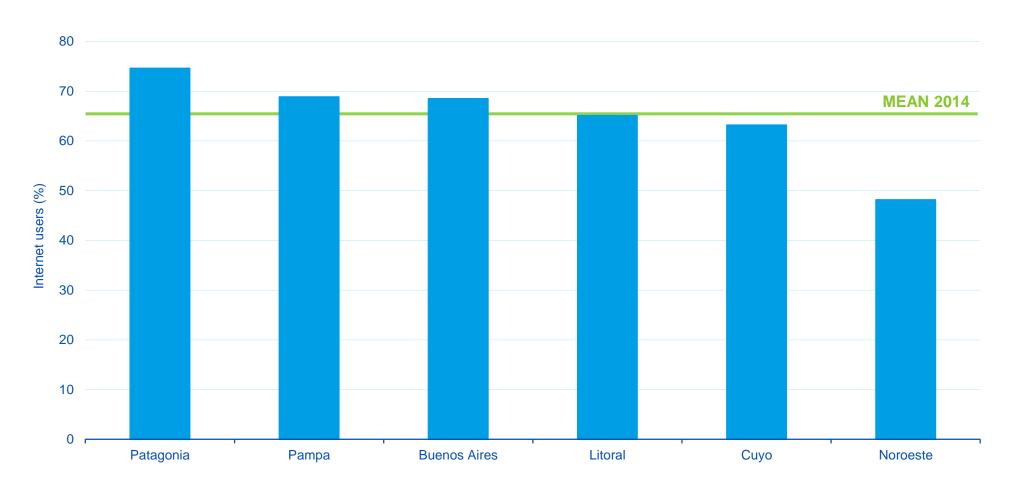


Significant increase in Internet access and Internet use between 2011 and 2015

Note: use of Internet over the last 3 months

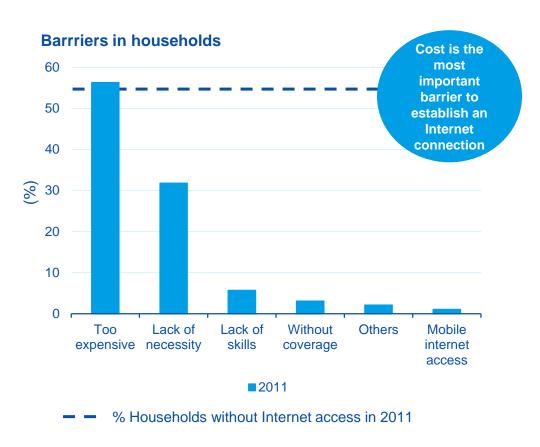


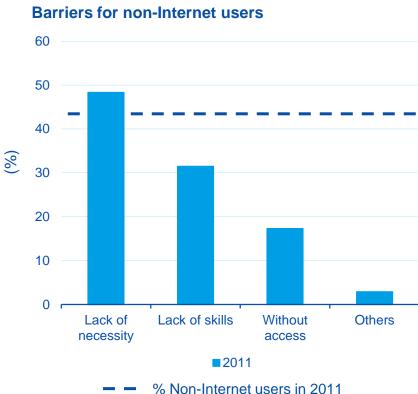
2.2. Internet use: evolution by geographies





2.3. Internet access: barriers

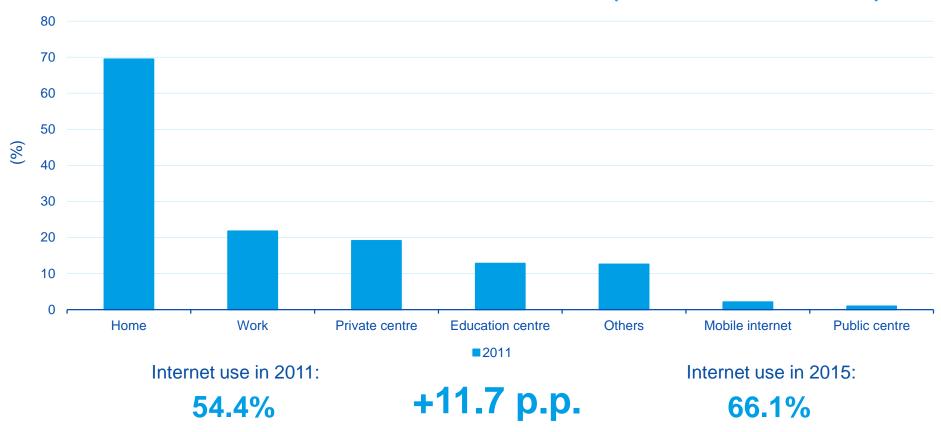




Cost is the main barrier to Internet access at home



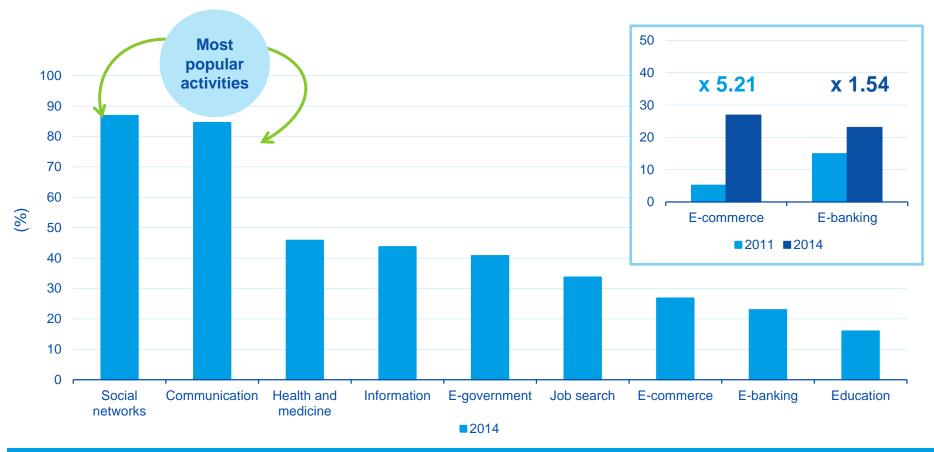
2.4. Places for Internet access (last 3 months)



Home and work are the main places used to access Internet



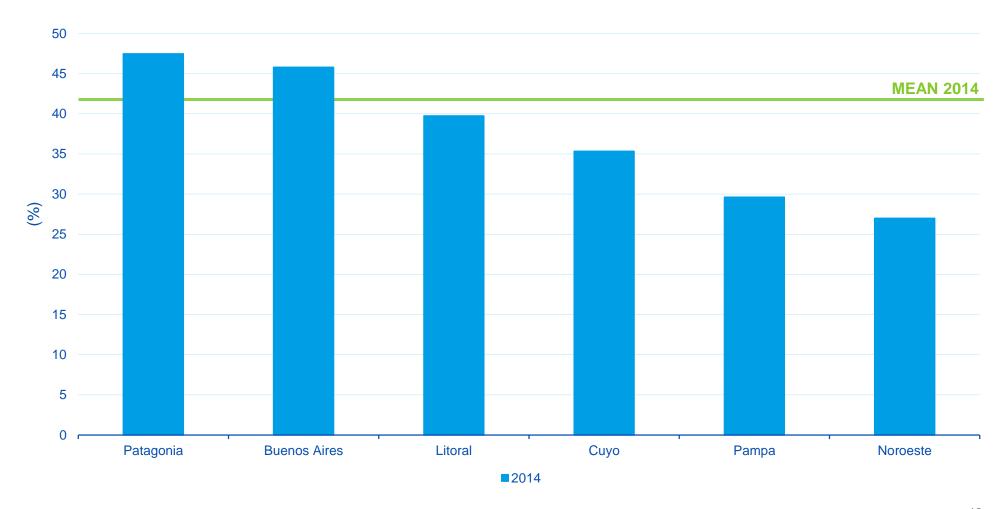
2.5. Internet activities: usage over last 3 months



Using social networks is the most popular activity among Internet users

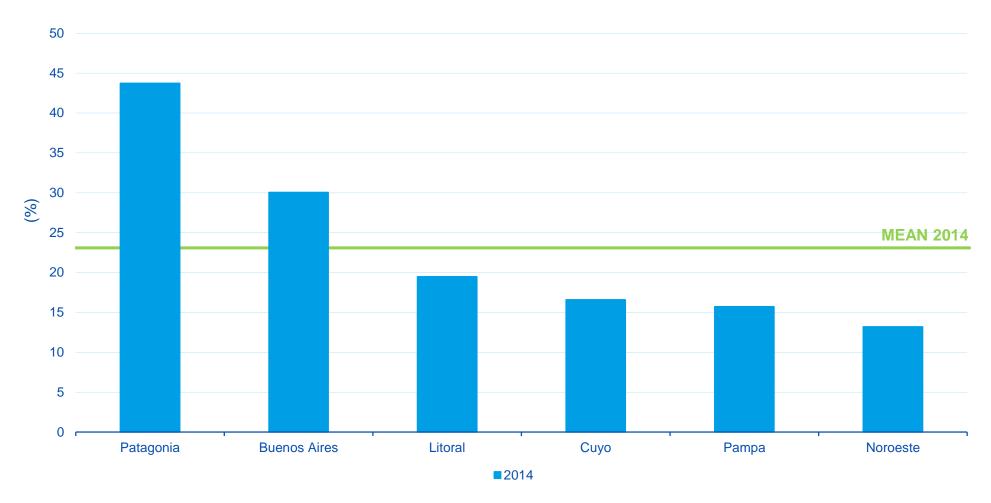


2.6. Smartphones: evolution by geography

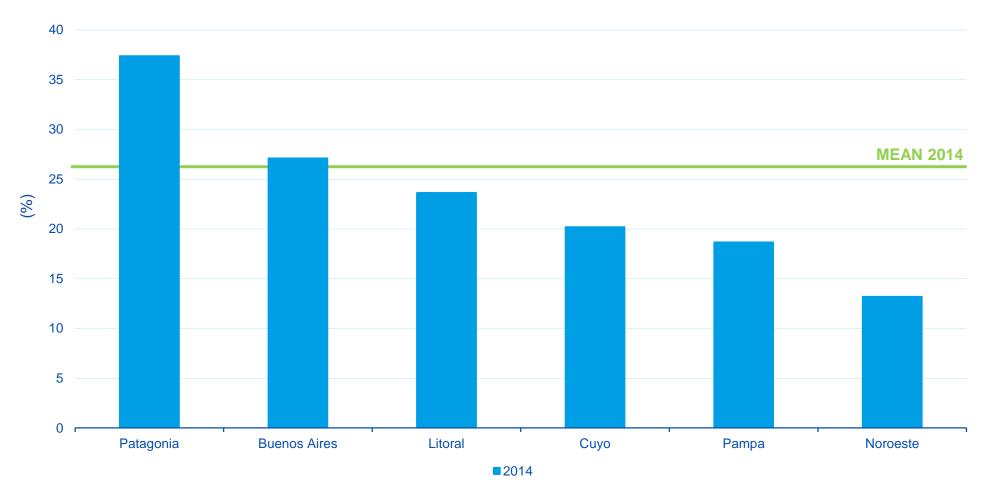




2.7. E-banking: evolution by geography

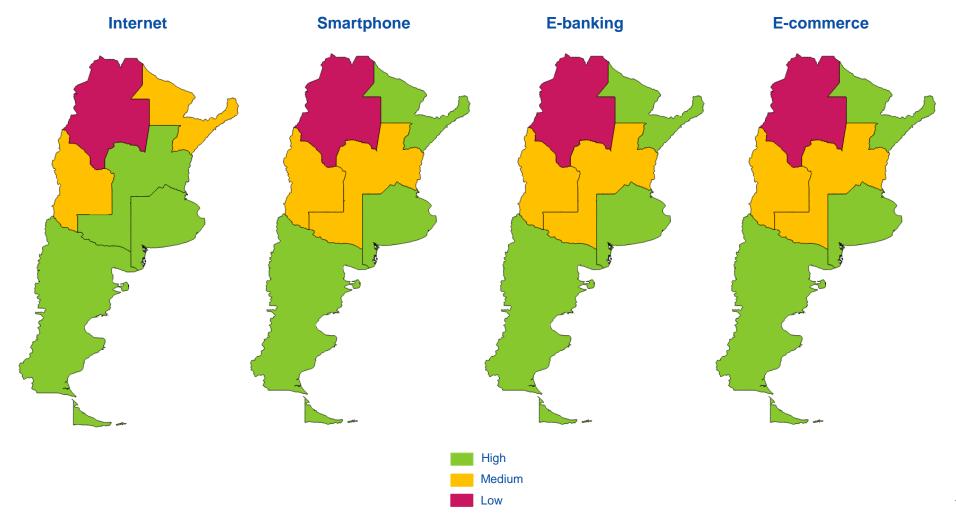


2.8. E-commerce: evolution by geography



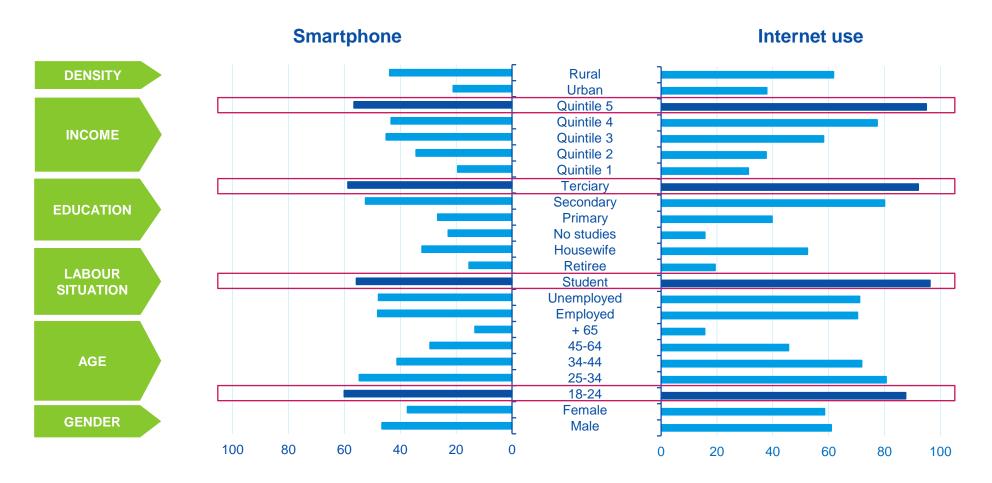


2.9. Geographical distribution in 2014: usage over the last 3 months



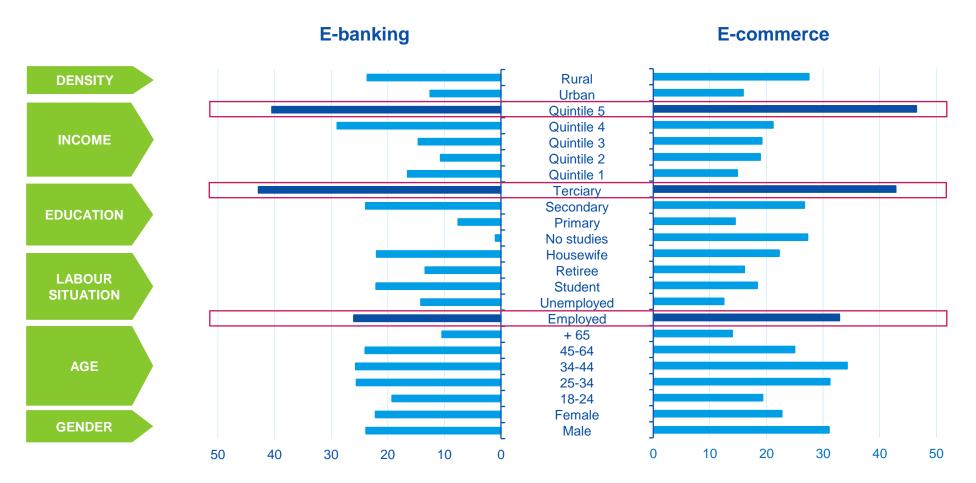


2.10. Population characteristics: Internet and smartphone use (%)





2.11. Population characteristics: users of e-banking and e-commerce (%)





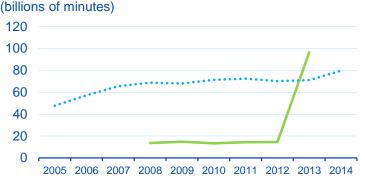


3.1. Mobile situation

Mobile-cellular telephone subscriptions

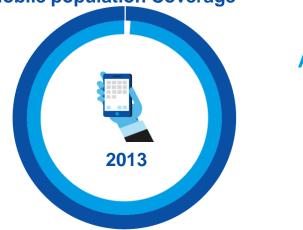
(per 100 inhabitants) 180 143.90 160 140 120 100 107.90 80 60 40 20 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015

Domestic mobile-telephone traffic (billions of minutes) 120 100 Argentina





Mobile population Coverage

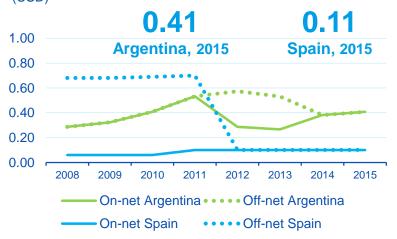


Argentina 98%

Spain

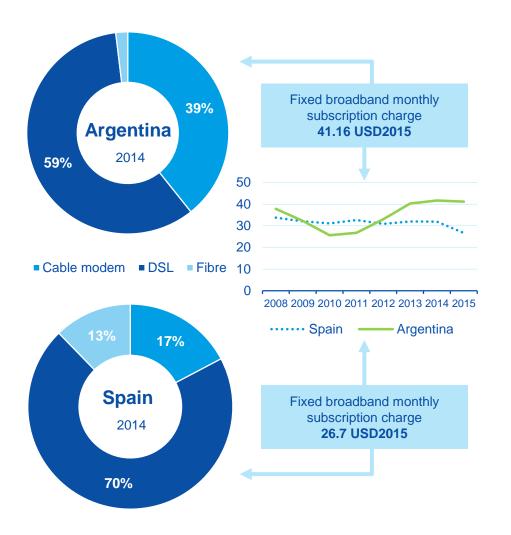
Spain 99.8%

Tariffs: Mobile-cellular prepaid-1 min call (USD)





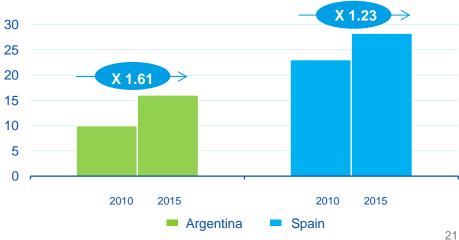
3.2. Fixed broadband



Fixed broadband speed (in Mbit/s)



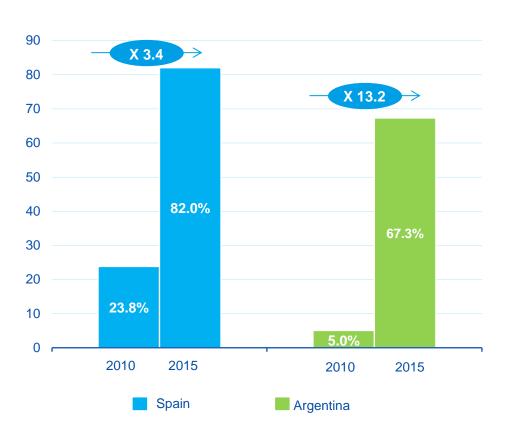
Fixed broadband subscriptions (per 100 inhabitants)



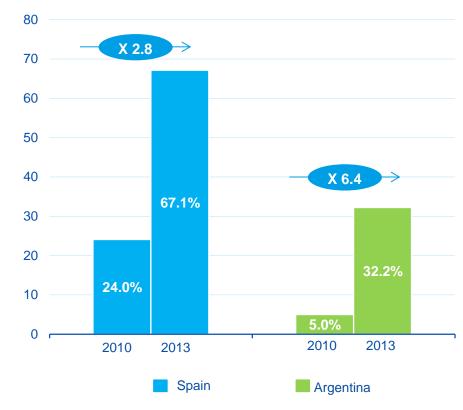


3.3. Wireless broadband

Mobile-broadband subscriptions (%)



Total wireless broadband subscriptions (%)

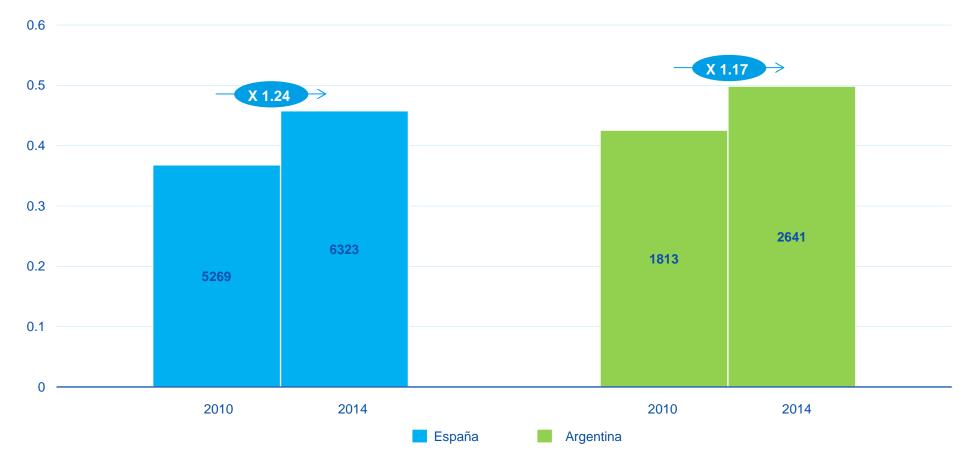


Note 1: The numbers inside the bars show number of subscriptions per 100 inhabitants



3.4. Annual investment in telecommunication services

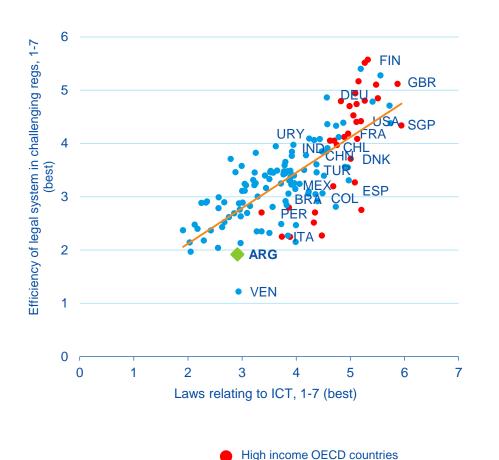
Annual investment in telecommunication services (millions of USD, % GDP)

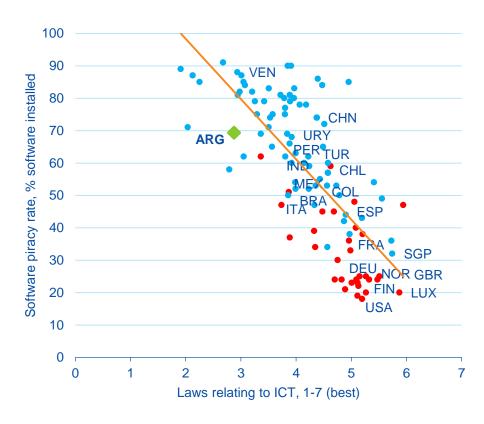






4.1. ICT laws: Efficiency and Piracy



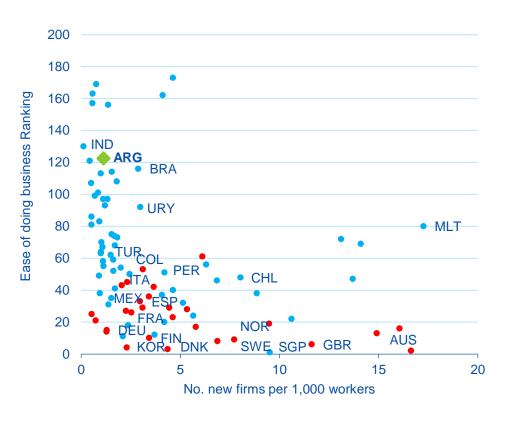


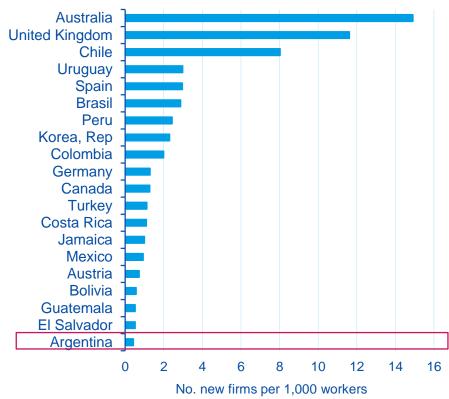
Rest (Argentina is highlighted in green)

Source: BBVA Research & World Economic Forum



4.2. Ease of doing business & entrepreneurship



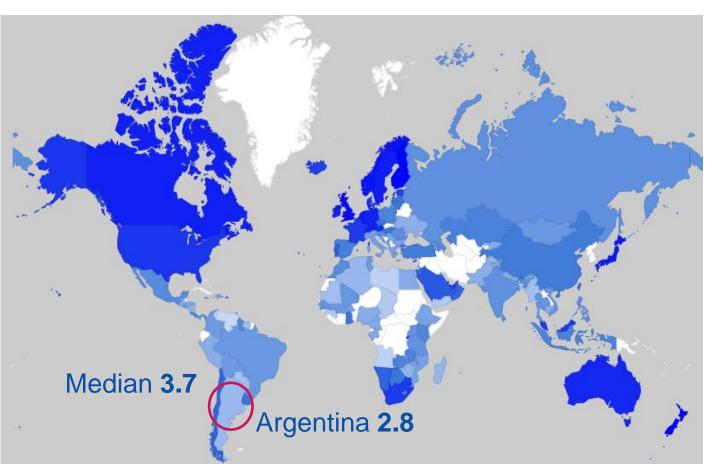


High income OECD countries

Rest (Argentina is highlighted in green)



4.3. Political and regulatory environment





The political and regulatory environment of Argentina is below the global median

Source: BBVA Research & World Economic Forum, 2015





Composition of the Digitization Index

Infrastructure

- ✓ Fixed (wired)-broadband speed, in Mbit/s.
- ✓ International Internet bandwidth. It is measured in bits per second per Internet users.
- ✓ Percentage of total population covered by a mobile network signal.
- ✓ International Internet bandwidth in megabits per second (Mbit/s).

Cost

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

Users adoption

- ✓ Active mobile-broadband subscriptions.
- √ Fixed (wired)-broadband subscriptions.
- ✓ Mobile telephone subscriptions
- ✓ Percentage of households with Internet access at home.
- ✓ Proportion of individuals that have used the Internet in the last 12 months.
- how widely used are virtual social networks in the country.

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 welldeveloped]

Firms adoption

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

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

Content

✓ The Government Online Service Index assesses
the quality of governments' 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:

Survey conducted by the National Institute of Statistics and Census of Argentina Republic (INDEC) for years 2011 and 2015.

This is a special study for households and individuals on the Use of Information Technology and Communications (ENTIC) in Argentina.

In addition, we used additional information from another survey conducted worldwide by the Pew Research Center about trends and technological dynamism in several countries (Spring 2013-2014 Survey).



Source of data from the Supply Side: World Telecommunication/ICT Indicators database (ITU, 2016)

The World Telecommunication/ICT Indicators database contains time series data for the years 1960, 1965, 1970 and annually from 1975 to 2015. 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

