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#### **Argentine Republic**

#### ARGENTINA: INVESTMENT OPPORTUNITIES IN THE ICT SECTOR

#### Summary:

This document contains a presentation prepared by the Ministry of Communications of Argentina on the investment opportunities the country offers in the ICT sector.

#### Action required:

TDAG is invited to note the presentation.

**References:** 



### Argentina: Investment Opportunities in the ICT Sector Ministry of Communications

#### Contents

- Overview of the sector in Argentina
- Starting point and government plan
- Investment opportunities

### Overview of the sector in Argentina

**SECTOR REVENUES** are low and have been decreasing in real terms over the past years ...

... additionally, **INVESTMENT AS % OF REVENUES** has been low if compared to that of other countries within the region

In terms of **BASIC SERVICE PENETRATION** (fixed and mobile), Argentina is doing better than other countries in the region ...

... however, Argentina is lagging behind in terms of QUALITY AND ADVANCED SERVICE PENETRATION

Finally, Argentina shows **SIGNIFICANT LEVELS OF INEQUALITY** among provinces and income classes

This situation was generated by restrictions on the demand and supply side

- 1. Price controls in fixed telephony.
- 2. Reduced competition in residential market.
- 3. Inefficient allocation and use of spectrum.
- 4. Weak execution by the regulator.
- 5. Difficulties to build infrastructure
- 6. High prices for consumers.

Supply

Demand

7. Barriers for ICT adoption by businesses and government.

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## Total sector revenues have declined in recent years

x Revenues in USD at official exchange rate



SOURCE: Ovum, 451 Research, IHS Technology, Economist Intelligence Unit, Analysis Mason, Ámbito Financiero.

## Argentina has high service penetration when compared to other countries in the region ...



SOURCE: Anatel; Subtel; IFTEL; MinTIC; Indec; ANTV; 451 Research; Telegeography; IHS Technology.

### ... however, there is low penetration of advanced services

Mobile: 3G and 4G penetration Fixed: average speed of connections 3G and 4G lines / total mobile lines, Mbit/s, 1Q 2016 %, 2015 5.3 50% **8%** 58% 73% **5%** 78% 7.3 15.3 41% 58% 99%

4G

3G

## In addition, there are significant differences in service penetration among provinces



SOURCE: ENACOM, Censo INDEC 2010, ITU

## The ICT sector is a priority for Argentina as a key driver of economic and social progress

ICT employment has a multiplier effect on the economy



Connectivity as a driver to integrate the country and reduce poverty



SOURCE: : UNCTAD; Information Economy Report 2010; Nasscomm 2009-2010; ICT impact on development: a Latin American perspective on meeting the economic challenges. June, 2010 - Dr. Raúl L. Katz - Columbia Business School.

## The Ministry has defined a programme for the sector centered around 5 priorities



## 1 Build a modern high-speed broadband infrastructure

- Enable revenue opportunities that will allow players in the sector to increase their investments
  - Flexible fixed telephony prices
  - Authorize *bundling* of TV and telecom services
- Protect and facilitate the deployment of infrastructure
- Create transparency about the quality of fixed services

### 2 Improve 3G and 4G mobile network quality

- Create a multi-year plan for spectrum (e.g., including 5G)
- Simplify the process to invest in infrastructure
- Create transparency about coverage and quality
- Facilitate number portability and unlocking of devices

# 3 Develop a modern regulatory framework for the digital age

- Establish a modern regulation for (non-exhaustive):
  - Media (e.g., licenses attribution, content rules, advertising)
  - OTTs
  - Net neutrality
  - Use of universal service funds
  - Interconnection and access to networks
  - Carrier registration
- Create a plan for the transition to digital TV

### 4 Stimulate demand for advanced services

- Facilitate access to technology by reducing the cost of Internet-enabled devices
- Create incentives for the creation of digital clusters
- Promote connectivity and use of ICT by SMEs (for example: access to high-speed broadband)
- Encourage investments in the IT sector (for example: hardware, software, services)

5 Eliminate the country's digital gap ("zero digital poverty")

- Connect remote towns and cities that have deficient access to Internet
- Provide access in low-income and rural/remote locations
- Design initiatives to increase awareness and use of digital services

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In this context there will be ample opportunities for growth and investment, as Argentina will need to catch up to satisfy a latent demand



1 Including revenue derived from devices and telephones.

2 Not including spectrum licenses.

NOTE: Informal exchange rate as quoted on Ámbito Financiero.

SOURCE: PEW Research, IDC, IHS, ITU, Ovum Research.

### Overview of investment opportunities

### Investments already committed by operators ...

USD billions, annual investments by main operators



#### ... will provide significant opportunities for growth in the sector ...

- Fixed network equipment (upgrade in backbone and last mile)
- Mobile network equipment (current 4G rollout and future 5G rollout)
- Partner with ARSAT
- MVNOs
- Mobile towers
- Field services for network rollout and maintenance
- Upgrade to back office of operators (e.g., IT legacy systems)
- End-user devices (smartphones and tablets)

#### ... as well as enable opportunities in adjacent sectors

- IT Services (e.g., cloud services)
- Software
- Hardware (computers, servers, etc.)
- Apps
- OTT content
- ICT-enabled industries
  - Health care (eHealth)
  - Education (eLearning)
  - Online banking
  - Connected home
  - Localization services
  - Logistics



### **THANK YOU!**