

Argentine TIC Day Ministry of Communications

ARSAT OVERVIEW & FINANCIAL OPPORTUNITIES Dr. Rodrigo De Loredo CEO - ARSAT

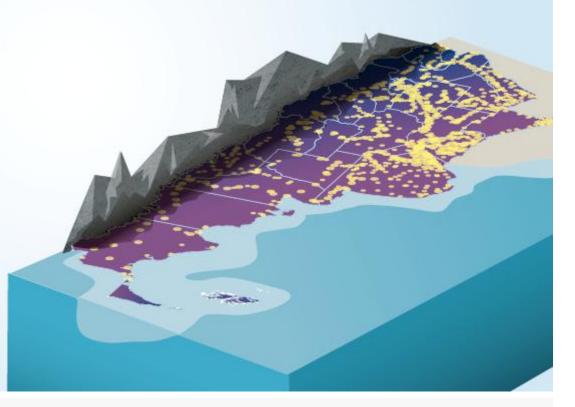
Company Overview



Empresa Argentina de Soluciones Satelitales S.A.

National carrier, responsible for providing telecom services through a combination of different land, air and space infrastructures.

High quality connectivity at reasonable and competitive prices for high potential improvement of the argentine population.

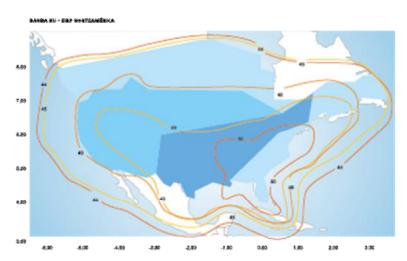




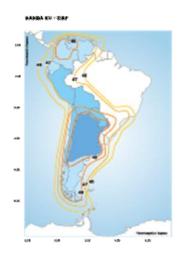
What ARSAT offers to private companies to leverage their investments

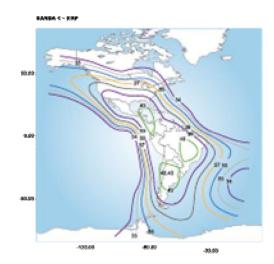
Satellite Services

- 2 geo satellites operating in excellent health
- ARSAT Satellite Program was awarded internationally
- +3500 VSAT in service, under multivendor platforms
- State of the art and most realiable Teleport in the región, located in Benavidez, Buenos Aires
- +70% of occational use market in Argentina serviced with ARSAT-1 and 2



Operating in Perfect health with 100% service availability
Service in Ku and C bands, over USA and Canada from 81° West





Excellent technical specs for mobility and other services

Best cost-effective choice for USA customers

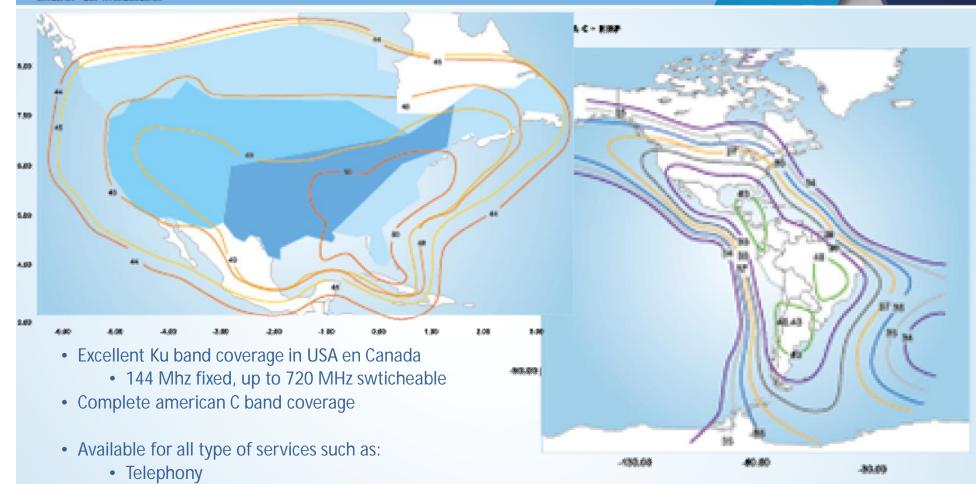


ARSAT-2 in USA and Canada

Internet and Data

Video and TV distribution

BANDA BU - DRY WOYTEAMÉRICA



• Interconnection available between North and South Ku spots

Mobility services: terrestrial, in-flight and maritime



What ARSAT offers to private companies to leverage their investments

Fiber Optics Network (at 28-oct-2016)

34,886 km Fiber Optics deployed

29 Millions people reached

+1,300 towns interconnected

17,000 km Fiber Optics network in service

48 fibers per cable in redundancy

134 towns today in commercial service



What ARSAT offers to private companies to leverage their investments

Data Center

- 4,200 square meters, 50% in service
- 4 rooms with capacity to install more tan 600 racks, plus a maximum security vault room
- ISO / IEC 27001 Certified: 2013, International Standard for Security Information Management Systems

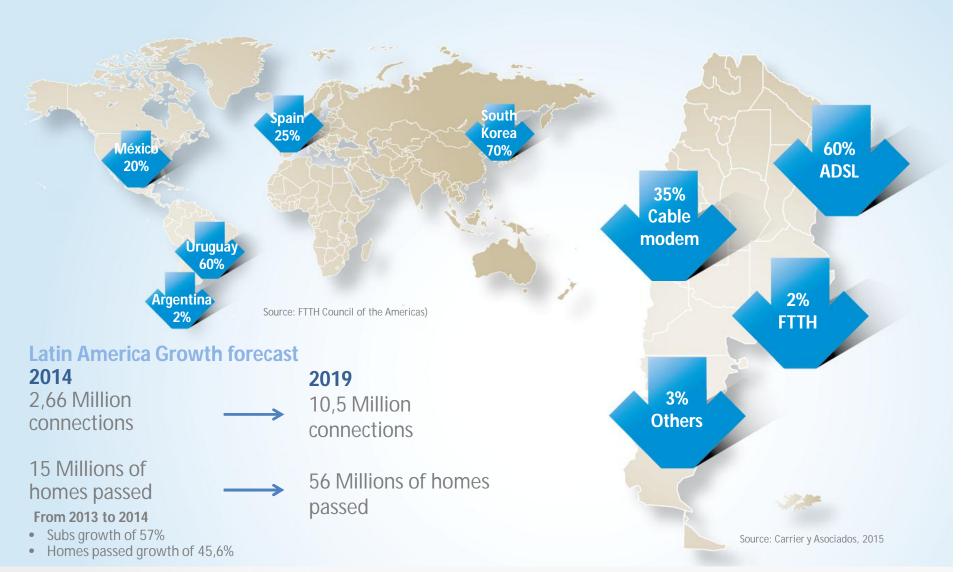
Free to Air TV Stations

- 88 TV stations deployed
- 82% of population coverage with free to air service
- 1.200.000 homes





Fiber Optics Market Residential FTTH Market





Private funding opportunities Fiber Optics network – Residential Access FTTH

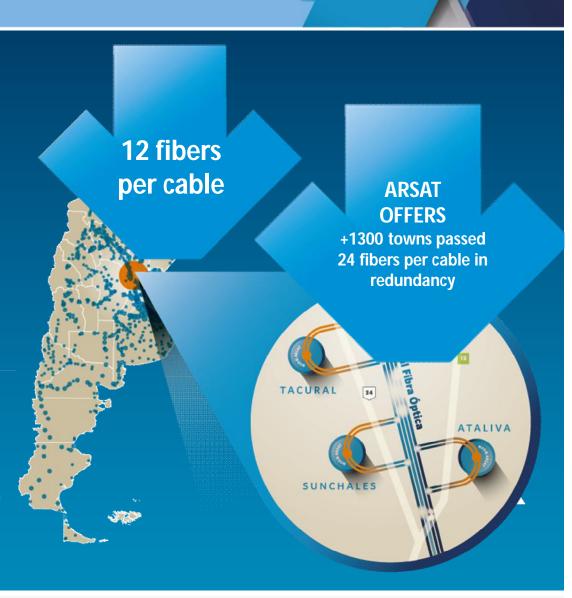
FTTH Home Access

Objective: growth from 300K (2%) to 3M users (20%)
Cost per home between USD 300 and 500 Investment of USD 1050 millions

EBITDA: 25/30% ROI: 24/36 months

FTTH Services:

- IPTV, VOD, OTT, Video-conference
- Internet from 100 Mbps up to 1 Gbps
- Telephone
- Mobility
- Telemedicine, Remote workstations, Teleducation
- Security, IP Cameras
- Gaming, social networks
- TV (analogue and digital)





Internet Broadband Market

2015

Source: Euroconsult

2.5 Million

2024

7.1 Million

HTS Global Market Share Current vs. Forecast RUSSIA AND CIS EUROPE MIDDLE EAST AND AFRICA 2015 ● 2024 LATIN AMERICA Consumer Broadband Subscribers Commercial **HTS Systems** Launched ships

2015

In Argentina

+1.2 million homes have no access to land networks (Source: INDEC, 102016)

+80%
of the country have
little to no broadband
services

<4.2 Mbps average connectivity (Source: Akamai, 3Q2015)



Business Jets

2004-2015

25,000

2024

Commercial Airlines

Private funding opportunities ARSAT-3 – Ka band High Throughput Satellite (HTS)



100% Southern Cone COVErage

40 Gbps

+350k

homes

Backhaul 4G

service until fiber is deployed

2021 launch

Lifetime of 15 years

Investment USD 230 M IRR ~20%

ROI 5 years



Real state – Towers for mobility services market



2.1 out of 3.4 million cell sites in the world belong to Neutral Infrastructure Operators

16k sites are deployed today in Argentina and 30k are required for 2020 in order to face new 4g/5g market layout.



Neutral Infrastructure operator sites

33% 0% 93% 71%

Population per site

3.816 4.133 3.889 5.276



Mobile market is in expansión based on:

- 1. More specturm available
- 2. More spectral efficiency
- 3. More sites (Objetives)



Private funding oppportunities Access to real state - Towers

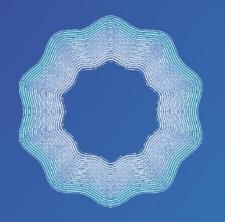
ARSAT owns 1447 sites immediately available for new cell sites, distributed throughout the country with support and maintenance.

Besides all ARSAT sites are interconnected by fiber optics and satellite services, to ensure high quality services.

Thus, ARSAT is the most importante strategic partner to get immediate access to 9% of total towers embedded Base for mobile services







Thank you