

### Regulatory Trends & Forecasts in Latin America, with a Focus on the Mobile Industry



Presented at the Organization of Caribbean Utility Regulators' 3<sup>rd</sup> Annual Conference

Arturo Briceño

Nassau, Bahamas November 2, 2005

How Markets Work<sup>™</sup>

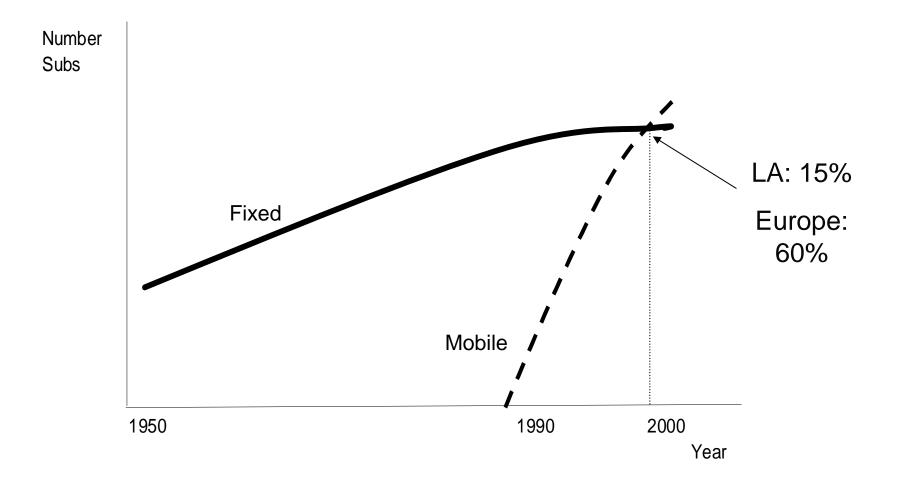
## **Results of Mobile Industry in LA**



- Steady *price reduction* over the years (two-digit annual rate reduction),
- Sustained *output growth* (two-digit annual growth rates),
- Constant improvement of *quality of service*
- Higher penetration in low-income groups. Example: in Chile mobile penetration in rural areas (where poverty is more acute than urban areas) is 25%, while fixed penetration is just 9%.
- Results in most of Latin America countries, as well as other countries elsewhere (Europe, North-America, Asia, etc.)

Economic Consulting

### **Quick and Substantial Mobile Penetration**



NER

**Economic Consulting** 

### Mobile Market Structure and Performance in Latin America



	Number Playe	rs	Penetration ' 05	Price **	MOUs	GDP/Capita
Argentina	4	*	50%	\$0.11	133	\$3,750
Bolivia	3		22%	\$0.21	65	\$891
Brazil	4 to 6	*	44%	\$0.14	87	\$891
Chile	4	*	72%	\$0.13	104	\$5,910
Colombia	4	*	38%	\$0.09	159	\$2,120
Costa Rica	1		23%	\$0.10	256	\$4,270
Ecuador	3		50%	\$0.20	69	\$2,270
El Salvador	4		31%	\$0.26	73	\$3,630
Guatemala	3		28%	\$0.10	160	\$4,990
Honduras	2		15%	\$0.23	78	\$2,700
Mexico	5	*	43%	\$0.21	88	\$6,445
Nicaragua	3		18%	\$0.41	45	\$2,580
Panama	2		44%	\$0.38	88	\$9,200
Paraguay	4		24%	\$0.12	82	\$1,085
Peru	3	*	22%	\$0.21	85	\$2,430
Uruguay	3		27%	\$0.14	79	\$3,770
Venezuela	4		50%	\$0.30	80	\$4,280
				_		
LA			41%	<b>\$0.16</b>	99	\$3,915
				•		•
Minimum	1		15%	\$0.09	45	\$891
Maximun	5		72%	\$0.41	256	\$9,200
Memo	_					
Population N	1		521			

\* It includes a trunking operator

\*\* ARPU / MOUs

Source: Pyramid Research

# What does the data tell us in LA as of 2005?



	Penetration	MOUs
10% Price Decrease	2%	7%
10% Increase GDP per-capita	3%	2%
10% Increase Number of Firms	7%	-3%
R-2 Adjusted	38%	81%

## **Drivers of the success**



- 1. Facility-based competition : achieved with between 2 to 4 firms in the market. Each firm deploys end-to-end infrastructure (not just service-based competition such as local and long distance)
- 2. Light-handed regulation.
  - Government frequency allocation
  - Government collaboration to introduce Calling-Party-Pays (CPP)
  - Government mediation of interconnection disputes

### 3. Innovative pricing

- Subsidized access to service (handsets) implemented by own industry,
- Price plans for everybody: *Prepaid* ("pay-as-you-go") targeted to household, *Bucket* plans for postpaid targeted to corporate, etc
- On net/Off net
- 4. Constant technological innovations passed-through consumers: new services (i.e. SMS, multimedia, Internet access, etc), upgraded handsets, better quality of service.

## Little bit of Regulatory History in LA: 80's and early 90's (1)



### Regulation focused on Incumbent Local Exchange Carriers:

 Economic reforms (liberalization, privatization) also implemented in telecom. The "Washington consensus" (World Bank, IMF's policies) was the accepted tenet.

Privatization of PTTs, encouragement of foreign investment

Creation of regulatory bodies, new Laws, regulations, etc.

 Regulation focused on interconnection rules to accommodate for new entrants (long distance carriers, mobile operators), pricecaps, quality of service, universal service funds.

# Regulation of telecom in the late 90's (2)



### Mobile sector

- Gradual opening up of mobile industry through new spectrum auctions.
- Governments attracted new investment by implementing legal and contractual commitments, stable rules of game ("concessions contracts", etc)
- "Calling Party Pays" (CPP) is introduced for landline-tomobile calls

## But...Latest Regulatory Trends for Mobile Industry



### **Regulatory Intrusion**

- At the extent that regulation of fixed network of incumbent was in place, regulators start shifting attention to the most dynamic sector: the mobile sector.
- Regulators view that fixed to mobile tariffs and/or mobile termination fees are too high: "mobile termination is a bottleneck".
- "Copycat" regulation: Copying regulatory fixed framework to mobile networks and regulatory framework from Europe to LA: number portability, termination charges, etc
- Increasing populist views (i.e. consumer associations, politicians, economic crisis)

## Other factors affecting regulation and industry conduct (1)



### High Taxation of Mobile Industry

- Based on the incorrect view that cellular is a "luxury" service while fixed telephony is a "necessity" service
- Based on a desire to "milk" a "cash-cow" during economic crisis (i.e. Uruguay, Argentina, Mexico)

### **Consolidation of industry**

- U.S. companies focus on U.S., got out of L.A. (Verizon, BellSouth)
- Two Regional players: America Movil (Mexico) and Telefonica Moviles (Spain)

#### State-owned mobile operators ("back to the future")

- Ecuador, Colombia, Uruguay, Costa Rica, Venezuela (?)
- Conflict of interest: regulator and state-owned company vis-à-vis other competitors

## Other factors affecting regulation and industry conduct (2)



- Rising of a new regulator: Municipalities, local governments. Example:
  - Harder license, permit requirements to install antennas
  - Creating new taxes or raising existing fees on industry
  - Regulations on radio emissions
- Environmental groups: pushing for new restrictions of antennas on environmental or urban development basis

## Other factors affecting regulation and industry conduct (3)



### **International Arena**

- WTO/GATS, most countries have signed the basic telecommunication agreement
- U.S.Trade Negotiations: Chile, CAFTA, Andean countries, etc.
  - Conditions on mobile operators ("dominant", cost-based termination charges, etc)
  - U.S. carriers pushing for reductions on mobile terminations of international calls in developing countries.
- U.S. Government's organizations (U.S.T.R, FCC) advocating LA Governments reduce mobile termination rates

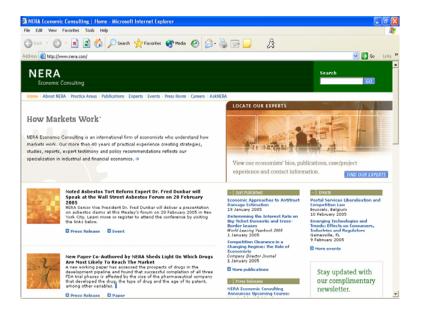
## Learn More About Us



### The NERA Weekly

#### Go to www.nera.com

- Complimentary weekly newsletter that features our latest thinking
- Updates on new publications, events, and client case/project work on our website
- Subscribe now online at www.nera.com/neraweekly.asp





### **Contact Us**

#### Arturo Briceño

875 N Michigan Ave., Suite 3650 +1 312-573-2828 +1 847-814-2114 (Cel) Arturo.briceno@nera.com

> © Copyright 2005 National Economic Research Associates, Inc.

All rights reserved.

ng

