

The Diffusion of National ICT Planning and Policies in Latin America

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The ICT policy and planning experience in Latin America has undergone three phases

PHASES	DRIVERS	PRIMARY ACTORS
PRIVATIZATION AND LIBERALIZATION (1990- 2002)	 Reduce the size of government Increase ICT sector efficiency Generate funds for public treasuries Generate static and dynamic efficiencies Signal foreign capital that Latam was an attractive market 	 Limited regulatory technical experience, required outside multilateral (ITU, World Bank) or private advisory (i-banks, consulting and law firms)
DEVELOPMENT OF ICT PLANS (1999-Current)	 Transition to "information societies" (development of broadband, adoption of computers, ICT-literacy) Promotion of export-led growth sectors (e.g. software industries) 	 Multiple state agencies In some cases, private sector involvement In some cases, subject to Executive or Parliamentary approval
EMERGENCE OF SUB- SOVEREIGN PLANNING (2003-Current)	 Development of E-government agendas (ciudades digitales) Promotion of ICT clusters and regional economic development In some cases, driven by lack of planning capacity of federal governments or in opposition to national agendas 	Municipalities and State governments

Each phase has been progressing across processes that can be studied with the help of diffusion theories

- Is there a pattern in the way telecommunications policies are adopted by different countries in Latin America? Timing? Imitation? Leaders and followers?
- What are the influencing factors driving policy adoption?
- Does the diffusion of planning initiatives across the region follow a pattern similar to that of privatization and competition?
- What can we learn from the first phase of privatization and competition that is relevant to the planning phase?

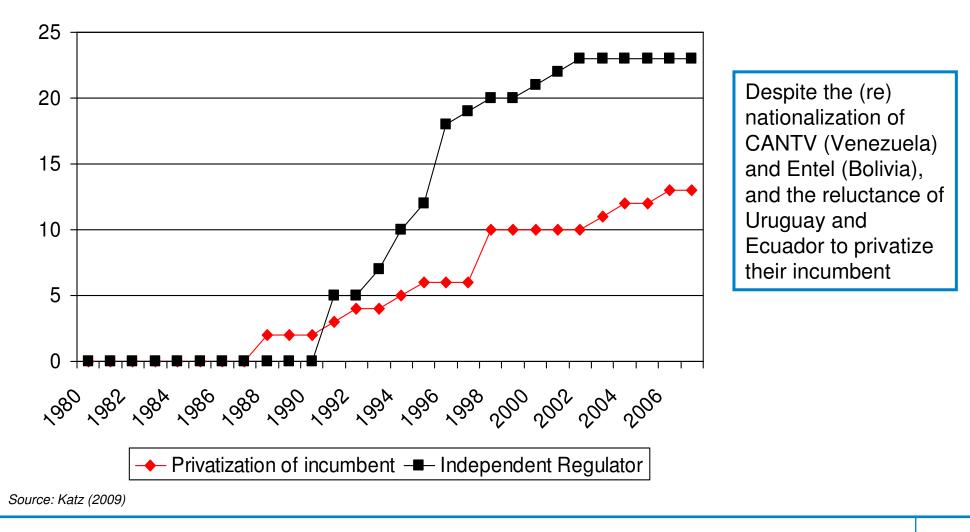
Agenda

• Public policy diffusion among Latin American countries

- ICT planning experience in the region
- Prescriptive planning models

Phase 1 (Privatization and Liberalization) adoption followed a conventional diffusion process

DIFFUSION OF REGULATORY INITIATIVES IN LATIN AMERICA

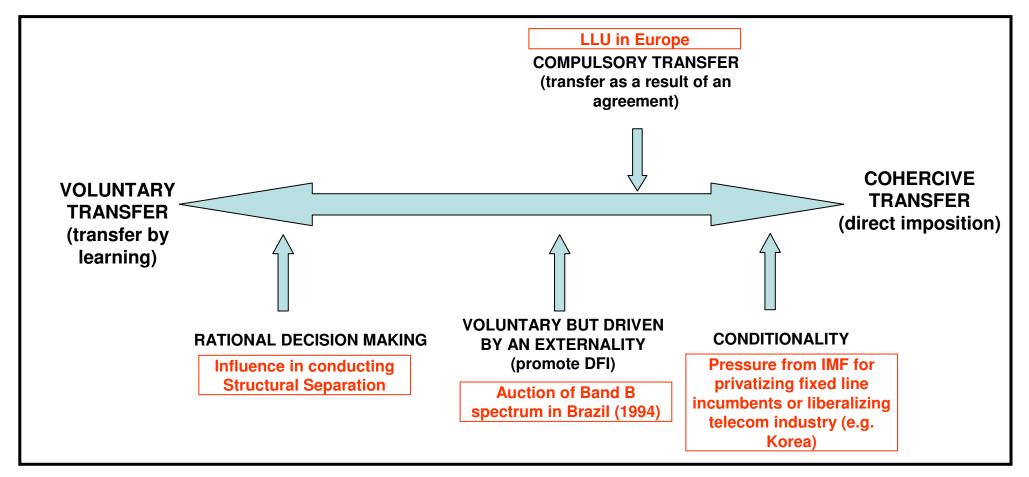


Three variables help understand the privatization and liberalization policy diffusion process

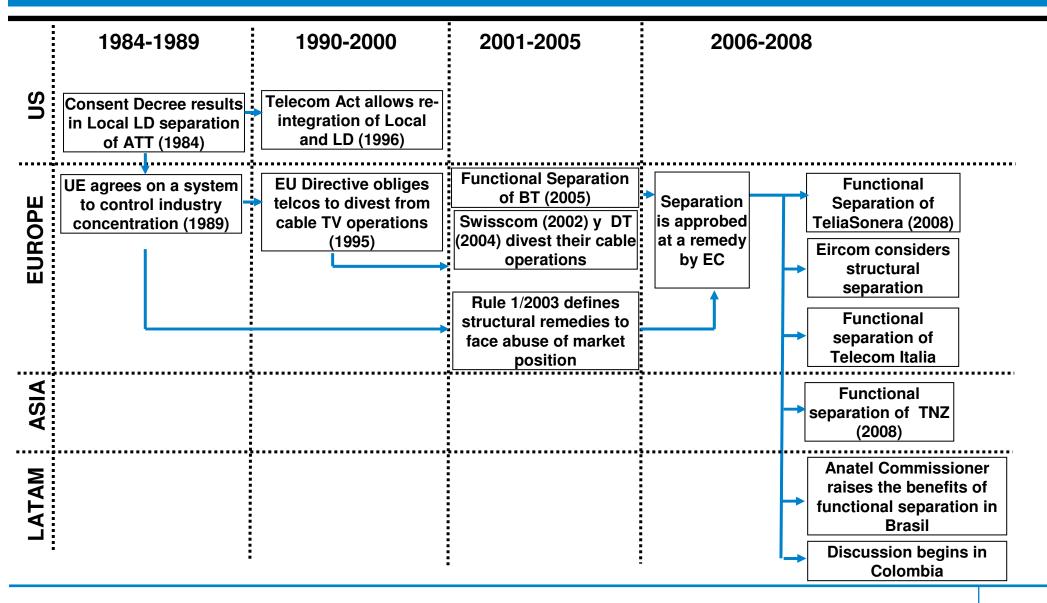
VARIABLES	TYPOLOGY			
DIFFUSION PATTERN	•Geographic proximity (similar problems and conditions, "copy your neighbor")			
	 Lateral diffusion (among countries sharing common socio-economic and cultural circumstances) 			
	 Hierarchical diffusion (from advanced countries to developing ones) 			
	Instigators (leaders and radicals)			
ROLE OF COUNTRIES	•Followers (moderates and indecisive)			
	 Laggards (conservatives, "snobs") 			
	 Supra-national (ITU, World Bank) 			
ROLE OF INSTITUTIONS	•Policy entrepreneurs (consulting and law firms, academics, i-banks)			
	 Community networks (ERG, Regulatel, etc.) 			

The institutional role in the diffusion process has followed several models

INSTITUTIONAL ROLES IN THE TRANSFER OF PUBLIC POLICIES



Right now, the region is embarking in a process of consideration of incumbent's functional separation models



Through diffusion processes, policy convergence is emerging within the region although some differences exist with other continents

	Europe	Latam	Asia	North America
Unbundling	 Convergencia de un modelo de desagregación para todos los estados de la UE 	 No hay un modelo de desagregación o reventa en la región 	 Convergencia de un modelo de desagregación para Corea, Malasia, Taiwán y Singapur 	 No desagregación tanto en Canadá o USA
Spectrum management	 Dividendo digital, asignación de 2.6 GHz Reformulación de 2G Diferentes términos legales, procesos y condiciones 	 Siguen políticas y principios de la ITU WARC 	 En la mayoría de países se otorga en conjunto con la licencia, excepto en PRC Algunos países se distribuye confiando en el mercado 	 Dividendo digital, asignación de 2.6 GHz Distribución de acuerdo al mercado
Universal Service	 La carga es repartida entre todos los operadores según beneficios 	 La carga es repartida entre todos los operadores según beneficios 	 La carga es repartida entre todos los operadores según beneficios 	 La carga es repartida entre todos los operadores según beneficios
NGN regulation		 No desagregación NGN - Ámbito sin definir 		 Sin restricción para el acceso al por mayor No desagregación
Foreign ownership restrictions		 Restringido a participación minoritario en México y Brasil Sin restricciones en Chile, Argentina 	 Generalmente restringida a participaciones minoritarias en Corea, Las Filipinas, China, Malasia, Taiwán y Tailandia 	 Sin restricciones
VoIP	 En general , VoIP no está regulado 	 Con la excepción de Chile, VoIP no está regulado 	 Variedad de modelos basados en la incertidumbre del impacto 	En general , VoIP no está regulado
Tariff controls	 Control para operadores con poder significativo de mercado (SMP) 		 Variedad de modelos, desde estrictos (PRC), price cap (Corea), basados en índices de productividad (Australia and Taiwán) hasta control para SMP (Singapur) 	 No hay price cap
	Convergencia w	ithin one region	Convergencia across regions	

There is a need to start breaking with the imitation cycle and assume policies that reflect the region's realities

- Build a solid understanding of economic and social needs of our regions
- Leverage the expertise that has been built in the region within the last fifteen years (academia, regulatory, policy makers)
- Assess foreign experience in light of the regional requirements (which means shying away from mechanical benchmarks)

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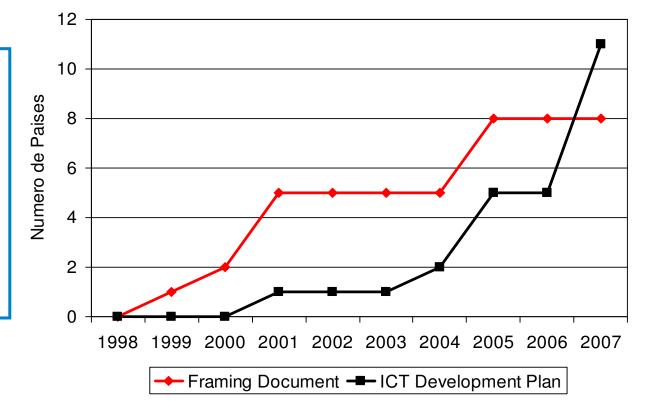
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The second policy phase – Development of ICT Plans – comprises two parallel processes

DIFFUSION OF PLANNING INITIATIVES IN LATIN AMERICA

- Framing document: diagnostic of ICT situation in country, general objectives for sector development
- ICT Development Plan: specific sector plans with focus on education, industry development, economic impact, etc.



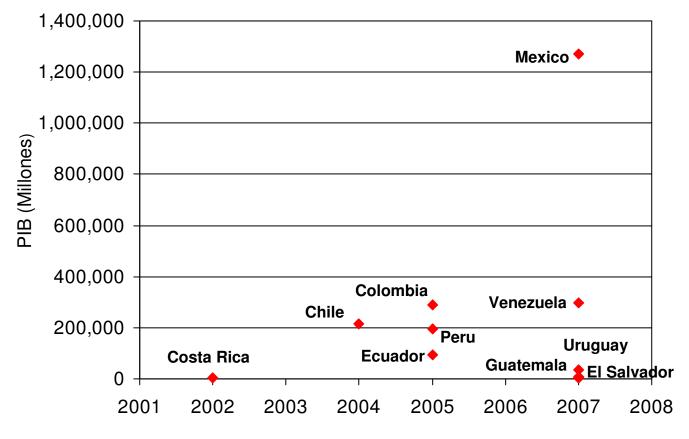
Source: Katz (2009)

The state of ICT planning varies substantially by country

Country	State of ICT Planning		Responsibility for Preparation		Responsibility for Follow-up			Private Sector participation	
	First Phase	Second Phase	First Level (1)	Second Level (2)	Third Level (3)	First Level (4)	Second level (5)	Third Level (6)	
Argentina	1		n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	
Bolivia	2		n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	Х
Brazil	1		n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	Х
Chile	1	1	Х			Х			Х
Costa Rica		2	Х			Х			
Colombia		1	Х			Х			X
Ecuador		2		Х			Х		
El Salvador		2	Х			Х			
Guatemala		2				Х			Х
México		1		Х		Х			X
Nicaragua	2		n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	
Panamá	2		n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	
Perú		2	Х			Х			Х
Venezuela	1	2	Х			Х			
Uruguay		2	Х			Х			Х

The larger economies tend to lag in the development of ICT plans

GDP AT PPP AND DATA OF PUBLICATION OF ICT PLAN



Source: Katz (2009)

This explains the leadership assumed by State and local governments in promoting ICT agendas

- Redefinition of the top-down paradigm whereby planning flows from national level to regional and local
- Shift in the center of policy development due to lack of leadership (Argentina)
- Change in resource allocation and budgets
- Political competition
- The sub-sovereign emerges as an instance of intermediation between civil society and the state (closer to understanding needs from local economies)
- As of last year, over 1,800 "digital plans" at the municipal level

With notable exceptions, the region still lacks comprehensive ICT policies

- Lacking a long-term vision regarding the objectives for ICT infrastructure
- No ICT agenda that is aligned with key development plans
- Economic development plans do not consider ICT as a critical component
- Lack of political alignment and coordination among government entities regarding the ICT policy objectives
- Lack of political will to build a national comprehensive ICT agenda
- Policy makers lack in-depth understanding of the social and economic importance of ICT
- Lack of transparency in the process of building consensus between the public and private sector around ICT goals
- As a result, plans are in many cases the sum of secondary objectives lacking a unifying perspective of what they are trying to achieve

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Need to continue constructing national ICT agendas in the region

- Governments need to assume a pro-active role in development and implementation of an ICT agenda, that goes beyond the regulator of the telecommunications sector
- The National agendas have to include:
 - Strategic vision of the role of ICT
 - Economic priorities in the supply and demand of ICT
 - Mechanisms for achieving not only economic impact but also fulfill social inclusion objectives
 - Mechanisms for promotion of adoption
- From a practical standpoint, the construction of a national agenda needs to follow four steps
 - Define a project for the country that is linked to ICT
 - Reach consensus among all public and private institutions related to ICT
 - Development of national plan
 - Formulation of specific projects
- Two alternatives if the above cannot be fulfilled
 - Leverage tools and programs that can achieve some impact (USO, e-literacy)
 - Rely on the private sector to assume leadership