







Progress and challenges in measuring ICT in Latin America and the Caribbean

International Seminar on Information and Communication Technology Statistics

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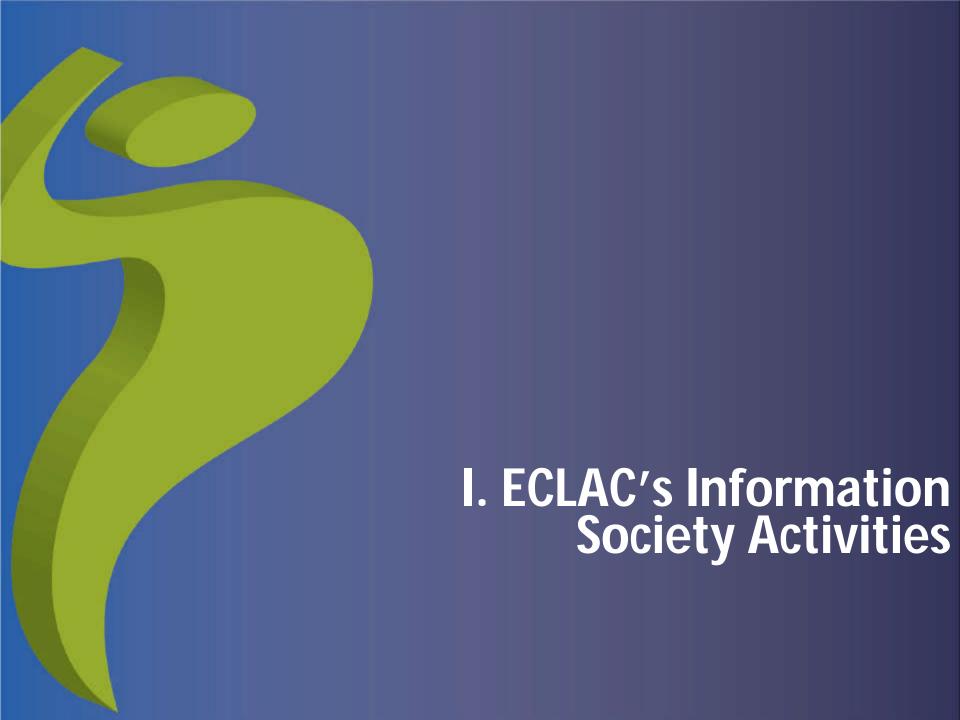
ECLAC- Division of Production, Productivity and Management

Agenda

- I. ECLAC's Information Society Activities
- II. Statistical Conference of the Americas (SCA) of ECLAC
- III. Measuring the Information Society
 - a. Background
 - **b.** Current status
 - c. Statistical Information System on ICT
- IV. Digital divide in LAC
- V. Conclusions and final reflections







ECLAC's Information Society Activities

- Innovation and ICT Unit
- Division of Production, Productivity and Management (DPPM)
- Economic Commission for Latin America and the Caribbean (ECLAC)

OSILAC

Observatory for the Information Society in Latin America and the Caribbean



eLAC

Regional Action Plan for the Information Society







www.cepal.org/socinfo/





ECLAC's Information Society Activities

Contributes to the development of Information Societies in Latin America and the Caribbean

CURRENT

ANALYSIS AND RESEARCH

POLICY PROPOSALS

Statistical harmonization

Quantitative and descriptive studies

Exchange of information and experiences

Regional cooperation





The eLAC process



eLAC2007: 30 goals and 70 activities (2005-2007)

eLAC2010: 83 goals (2008-2010)

eLAC 2015: in discussion





OSILAC

Since 2003, working together with:

- Partnership on Measuring the ICT for Development





















- Statistical Conference of the Americas (CEA-CEPAL)
- Regional NSOs and Ministries

To define and gather a common set of ICT indicators and to help developing countries in their efforts to produce statistics of the information society: http://measuring-ict.unctad.org





OSILAC Objectives

- Promote statistical harmonization so as to strengthen the monitoring of ICT policies and projects in Latin America and the Caribbean
- Monitor and analyze the progress of the regional countries towards the development of Information Societies
- Support countries in the compilation and analysis of statistical data, developing capabilities or assisting countries with survey Implementation (NSOs and other official institutions)







The Statistical Conference of the Americas

- Formed in 2000
- subsidiary body of ECLAC
- Mission: contribute to the progress of policies on statistics and statistical activities in the LAC countries
- Annual meetings
- 9 working groups

Main objectives:

- promote the development and improvement of national statistics and work to ensure that they are comparable internationally
- promote international, regional and bilateral cooperation among NSOs and international and regional agencies





Conferencia Estadistica

Américas de

Working group on ICT measurement

- Awareness
- Capacity building
- statistics of use, availability and impact of ICT relevant for the region
- quantifiable goals and indicators eLAC 2015
- contribute to the discussion and dissemination of new indicators
- working together with OSILAC

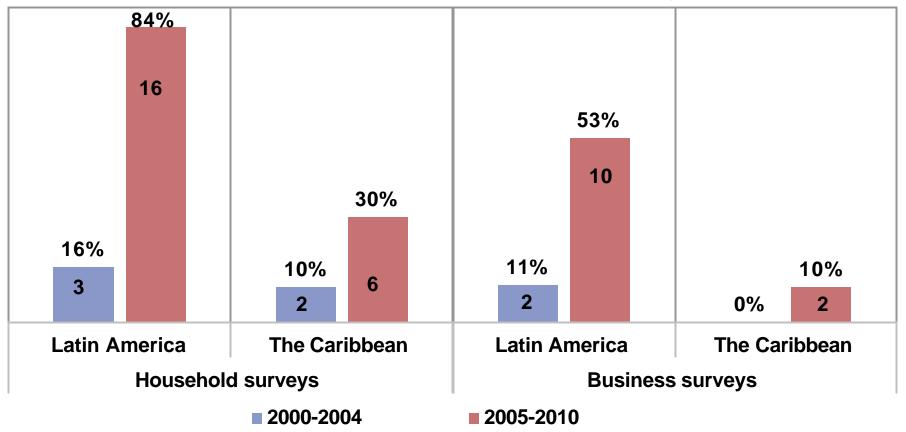






Progress in core indicators availability

Percentage of countries which measure core ICT indicators (revised list) in their household surveys.



Source: OSILAC based on information reported by National Statistical Offices. At least one indicator on ICT access and one indicator on IC usage. 19 Latin American and 20 Caribbean countries considered.





OSILAC Activities

- Annual Regional Workshops on Information Society Measurement in LAC - since 2004
 - Next in 21-23 September 2010 Montevideo, UY
- Capacity Buildings and technical assistance Colombia (2007) y Trinidad Tobago (2009)
- Compendium of Practices on the implementation of ICT questions in household and business surveys in LAC (2007 and 2010)
- Production and dissemination of analytical articles (microdata)
- OSILAC discussion list and work groups
- Caribbean Strategy ICT Household Survey (Mobile and **Broadband modules)**
- **Information System** database development



Available variables Versión en español About Surveys Documentation Use conditions Home

ICT Statistical Information S

Surveys

Form

Instructions:

90 surveys from 17 countries

"Select surveys you wish to use to calculate statistics. After that, press button 'Get Variables' in order to view all variables of the selected survey or all common variables of the selected surveys.

Available Surveys

Country	Name of the survey	Year	Coverage	Recall period	•
Mexico	Encuesta Nacional sobre disponibilidad y uso de las TIC	2009	National	Full year	Ĭ.
Ecuador	Encuesta de Empleo, Desempleo y Subempleo	2009	National	December	=
Colombia	Encuesta de Calidad de Vida	2008	National	Full year	П
Mexico	Encuesta Nacional sobre disponibilidad y uso de las TIC	2008	National	Full year	
Brazil	Pesquisa Nacional por Amostra Domicilios	2008	National	Full year	
Costa Rica	Encuesta de Hogares de Propósitos Múltiples	2008	National	July	
Uruguay	Encuesta Continua de Hogares	2008	National	Second half-year	
Paraguay	Encuesta Permanente de Hogares	2008	National	October - December	
Ecuador	Encuesta de Empleo, Desempleo y Subempleo	2008	National	December	
El Salvador	Encuesta de Hogares de Própositos Múltiples	2008	National	Full year	
Peru	Encuesta Nacional de Hogares	2008	National	Full year	
Costa Rica	Encuesta de Hogares de Propósitos Múltiples	2007	National	July	
El Salvador	Encuesta de Hogares de Propósitos Múltiples	2007	National	Full year	
Honduras	Encuesta Permanente de Hogares de Propósitos Múltiples	2007	National	September	
Colombia	Gran Encuesta Integrada de Hogares	2007	Nacional	Full year	v

Clear

Get Variables

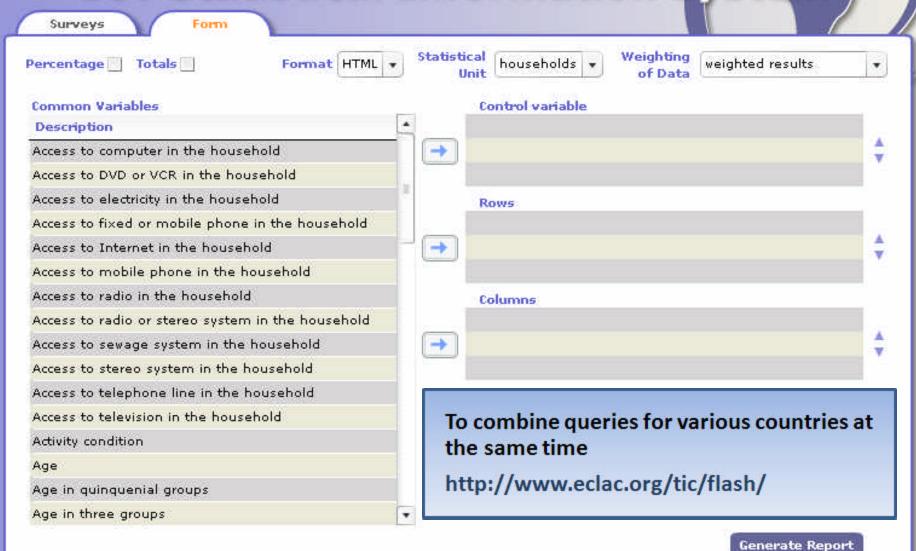








ICT Statistical Information System



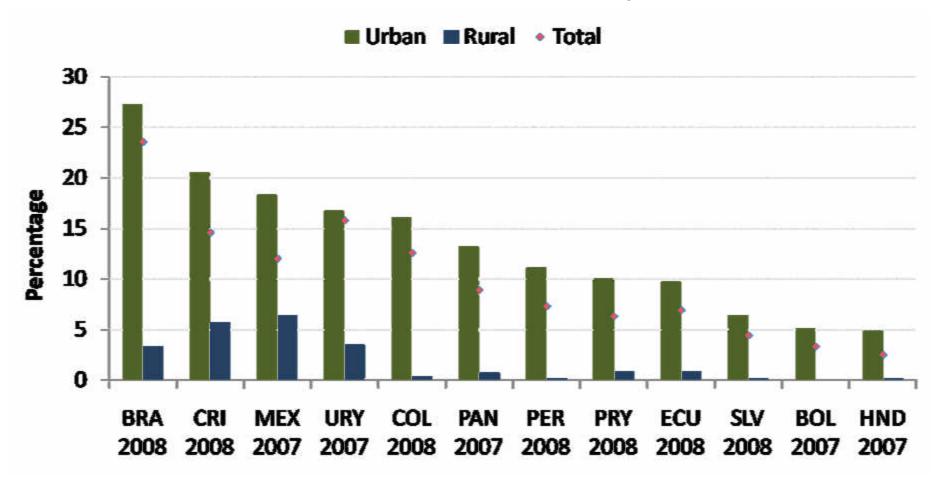






Supply gap: lack of coverage

Households with Internet access by zone



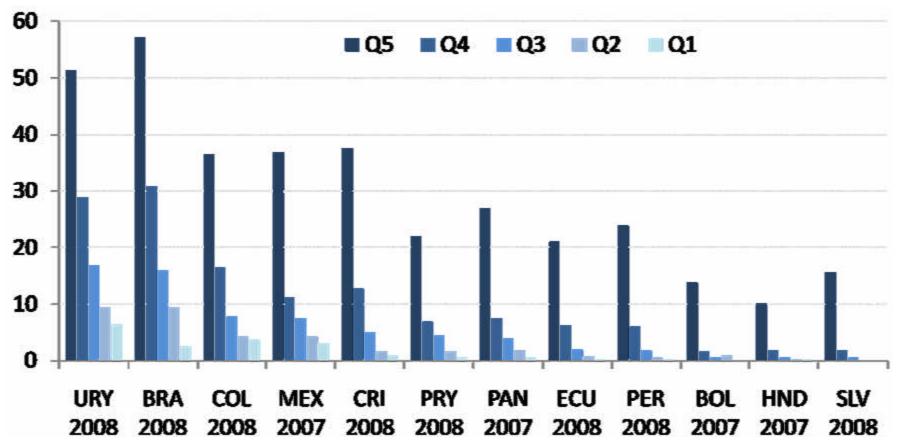




The internal divide:

Internet access to richer households exceeds 44 times the access of the poorest segment

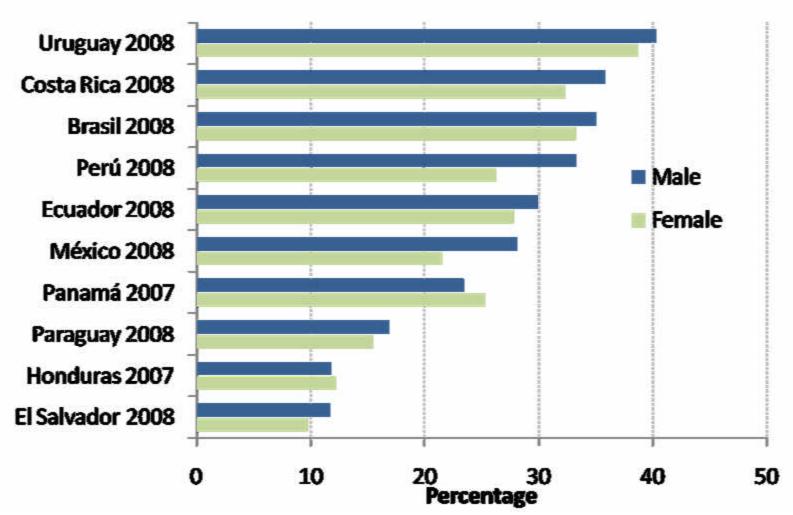
Households with Internet access by income







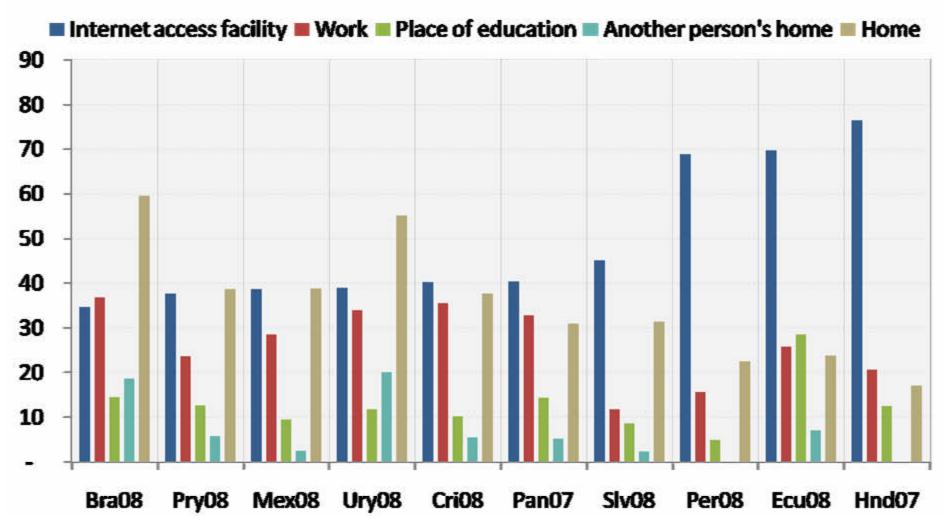
Internet usage by gender







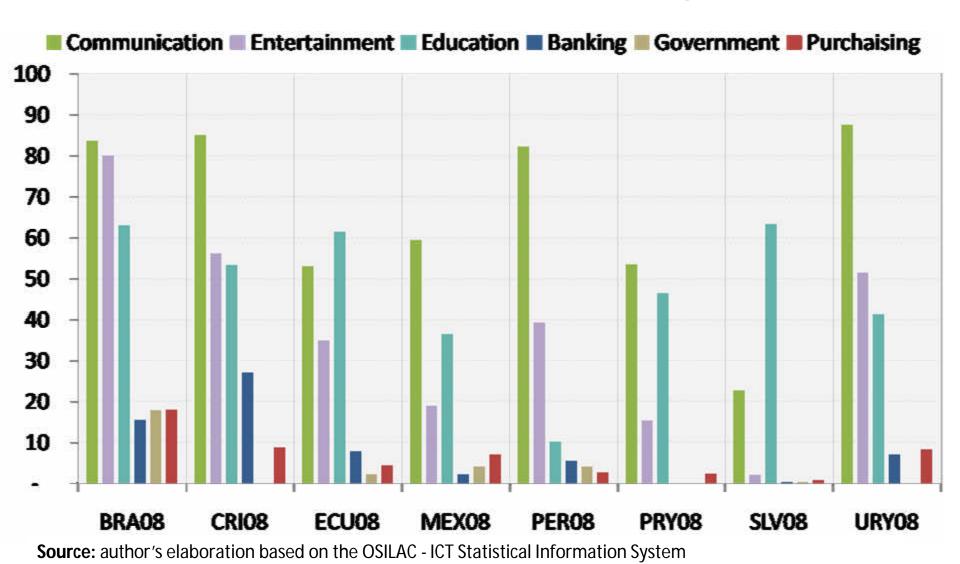
Location of individual use of the Internet







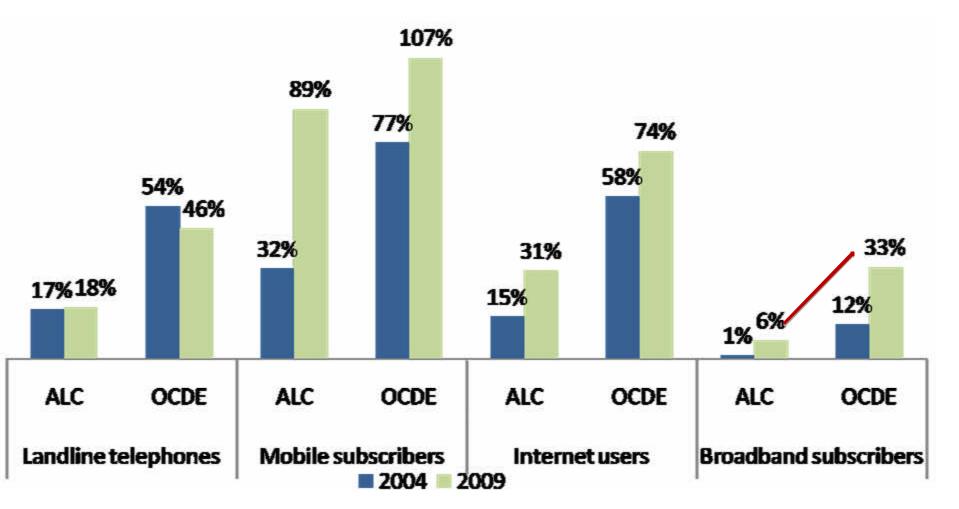
Internet activities undertaken by individuals







From the telephony gap to the broadband internet access gap

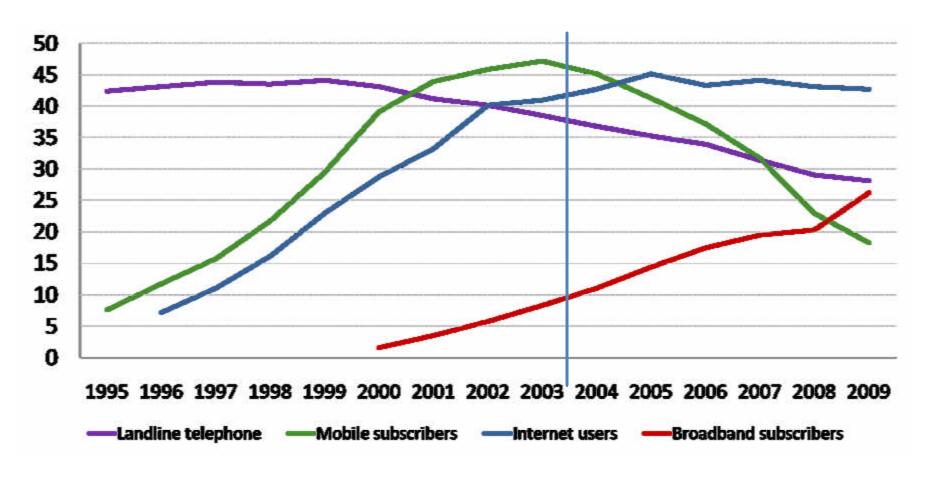


Source: CEPAL based on the ITU data "World Telecomunications Indicators Database" (2010).





From the telephony gap to the broadband gap: towards a 2nd sector reform



Source: CEPAL, based on ITU, "World Telecommunications Indicators Database", 2010.

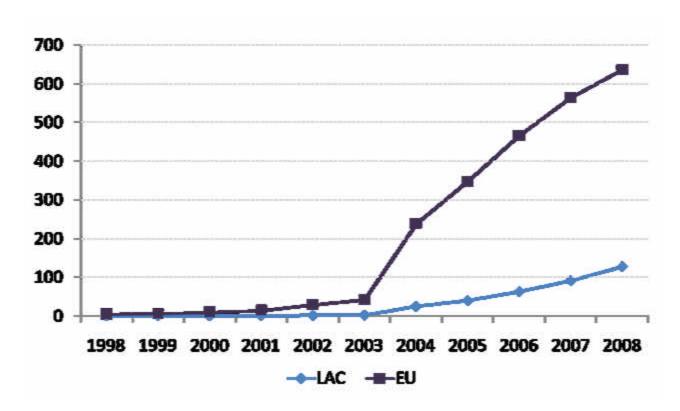
2009: Broadband access in LAC is 6% vs. 33% in OCDE





The real divide: the transmission capacity

Total capacity broadband transmission in LAC countries and the EU (cable modem y DSL)



In 2008, an inhabitant of the EU had 497 Kbps more than an inhabitant of LAC.

Five years ago, the difference was only 27 Kbps

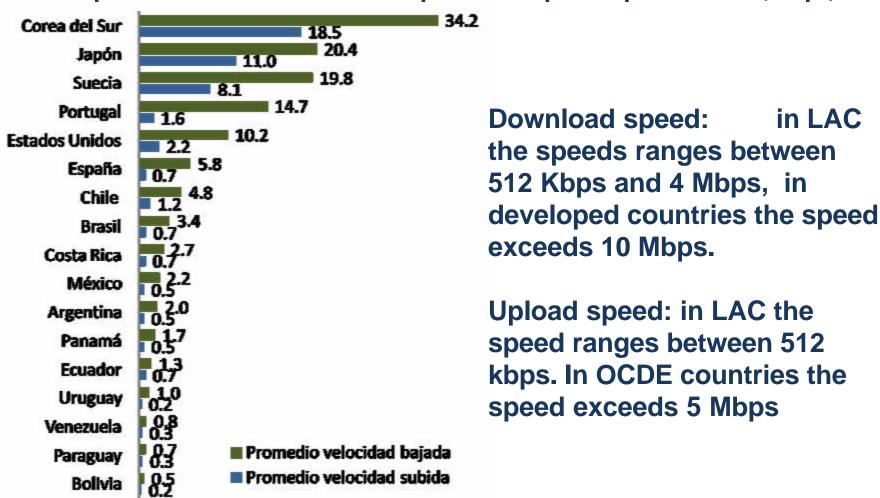
Source: CEPAL(2010), Banda ancha: una urgencia para América Latina y el Caribe, working document.





In LAC broadband is slower than developed countries

Speed connection: download speed and upload speed, 2010 (Mbps)

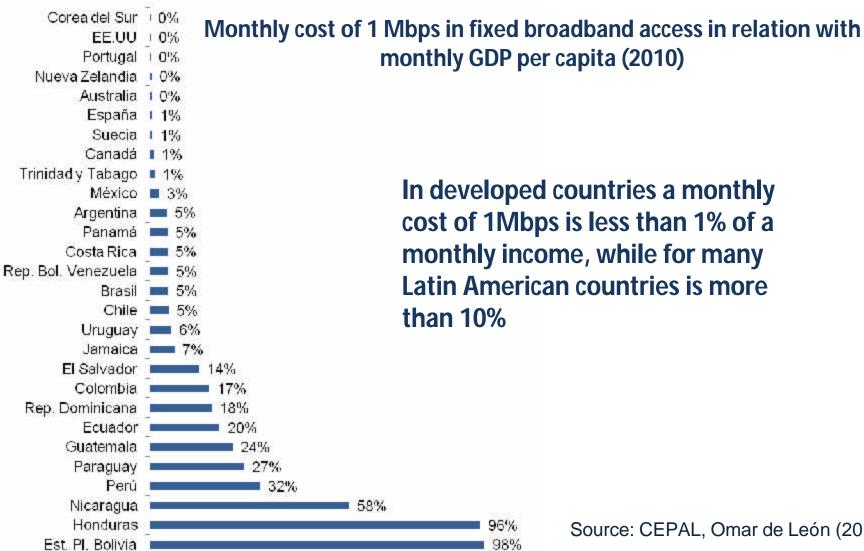


Source: www.netindex.com at Speedtest.net database





The gap in demand: affordability



In developed countries a monthly cost of 1Mbps is less than 1% of a monthly income, while for many Latin American countries is more

Source: CEPAL, Omar de León (2010)

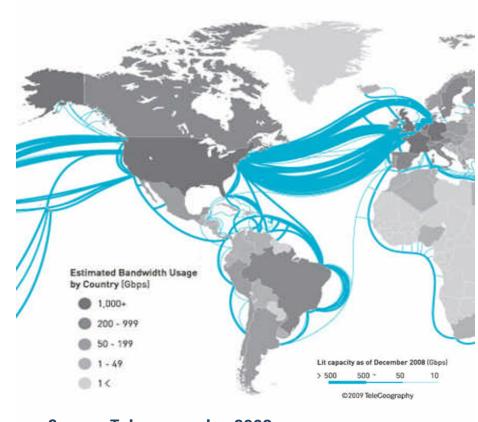




Cost of international connections

The region is connected to the world primarily through U.S.

- Increased connection delay to access local content
- Increased cost of services
- International connections equivalent to 35% and 40% of the access fee.
 - LAC: US\$100 US\$200 /Mbps
 - OCDE: US\$ 8 US\$ 10 /Mbps
- It is necessary to improve regional infrastructure
- IXPs at local and regional levels



Source: Telegeography, 2009.





IV. Conclusions and final reflections

Conclusions and final reflections

- Social and economic factors are still determining Internet access in the LAC region, particularly the <u>income</u>, <u>level of education and geographical</u> <u>location (mainly rural or urban)</u>
- The gap increases as technology becomes more complex and costly for the user, such as broadband
- The gap on <u>Internet use</u> is more difficult to close, since it is directly linked to education, income and culture, among others
- Closing the access gap is a major challenge in public policies related to emerging new technologies





Conclusions and final reflections

- Further efforts to <u>produce ICT-access-and-use indicators are therefore</u> <u>essential in order to assess current dynamics</u> and determine the real digital divide and stage of ICT evolution in the countries of the region.
- Analysis of the impact of ICT on different sectors of society is crucial to elaborating accurate policies for the information society.
- This is especially important for <u>identifying how ICT can accelerate the</u> <u>dissemination of knowledge, the social-economic development and</u> <u>promote innovation</u>.
- In this way, tools such as the OSILAC Statistical Information System on ICT which offers access to comparable regional data are crucial to the development of public policies in the region.





Way forward

- There has been great progress in the region, but much remains to be done, specially in the Caribbean region
- It is important to keep on discussing the <u>importance of harmonized</u> <u>indicators for the development of public policies and national strategies</u>
- It is necessary to elaborate new ICT indicators (impact, e-government, e-health, etc) that allow the monitoring of initiatives like the Plan of Action eLAC2015
- Resources are scarce and financing ICT surveys is not always possible
- Seeking synergies and coordination among and between institutions is the only efficient way to work towards achieving common goals



Thanks for your attention

Innovation and ICT Unit
Division of Production, Productivity and Management (DPPM)

Economic Commission for Latin America and the Caribbean (ECLAC)

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