BUILDING THE FUTURE OF LATAM INFORMATION AND COMMUNICATION TECHNOLOGIES

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THE BEAUTY AND THE BEAST

• Few language diversity, same background, similar history, similar social problems, similar requirements and expectations
• Why is it so difficult to empower LATAM as one integrated entity?
ICT GLOBAL MARKET

• ICT is an important and promising market
  • + 6,3 % en 2007, 5,5 % in 2008 and 5,2 % expected in 2009
  • Global amount of 2 238 millions of K€ in 2007, and 2 360,3 millions of K€ in 2008
• Software tools and services market represents 917 millions of K€
Opportunities for Latam

Internet Users in the World by Geographic Regions - 2009

<table>
<thead>
<tr>
<th>Region</th>
<th>Population</th>
<th>Internet Users</th>
<th>Penetration</th>
<th>Growth 2000-2009</th>
</tr>
</thead>
<tbody>
<tr>
<td>LATAM and Caribbean</td>
<td>586,662,468</td>
<td>186,922,050</td>
<td>31.9%</td>
<td>934.5%</td>
</tr>
<tr>
<td>Asia</td>
<td>3,808,070,503</td>
<td>764,435,900</td>
<td>20.1%</td>
<td>42.4%</td>
</tr>
<tr>
<td>Europe</td>
<td>803,850,858</td>
<td>425,773,571</td>
<td>53.0%</td>
<td>305.1%</td>
</tr>
<tr>
<td>North America</td>
<td>340,831,831</td>
<td>259,561,000</td>
<td>76.2%</td>
<td>140.1%</td>
</tr>
</tbody>
</table>

Source: Internet World Stats - www.internetworldstats.com/stats.htm
Estimated Internet users are 1,802,330,457 for December 31, 2009
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opportunities of latam

internet users in the americas
geographical distribution - 2009

Source: Internet World Stats - www.internetworldstats.com
446,463,050 estimated Internet users in the Americas for year-end 2009
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OPPORTUNITIES OF LATAM

Internet Users in the Americas
Geographical Distribution - 2009

Source: Internet World Stats - www.internetworldstats.com
446,483,050 estimated Internet users in the Americas for year-end 2009
Copyright © 2010, Miniwatts Marketing Group

Internet Penetration Rate in the Americas
2009 Year-end

Source: Internet World Stats - www.internetworldstats.com
There are 446,483,050 estimated Internet users in the Americas
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THE BEAUTY AND THE BEAST

- Few language diversity, same background, similar history, similar social problems, requirements and expectations
- Why can’t we empower LATAM as one integrated entity?
- Postmodern vision: “minorities” are complex entities to be understood in their internal diversity
- Understand the beast and face it in its whole complexity: not few language diversity, regions with different economies, ecosystems and social realities

Guatemala (52.8%), Perú (35%), Ecuador (9.4%), Panamá (8.3%)

Mayahuel, Borgia Codex, Eduard Seller, Comentarios al Códice Borgia, Mexico, Fondo de Cultura Económico, 1988
TOWARDS ICT AGENDA IN LATAM

Leitmotif: Computing resources at service of people

According to the countries internal reality
- Technology is not an industry and economy activator in LATAM despite efforts and actions
- LATAM tends to buy pseudo-solutions from abroad
TOWARDS ICT AGENDA IN LATAM: MEXICAN EXAMPLE

MEXICO ICT RESEARCH CHALLENGES
• Relevant information for decision making
• ICT for biomedicine: empowering national health
• ICT and education in the XXI century
• Security and transparency in information and services
• Intelligent environments for addressing the problems of big cities
• Knowledge based services for citizens

RedTIC, REMIDECE, SMCC, SMIA

• Provide a long term vision of ICT research
• Concrete evaluation criteria
• Ambitious but possible in the mid and long term
• Attractive and challenging for the community and motivating for society
• Address multidisciplinary problems
• Emerge from a consensus decision of the scientific community
• First workshop: 48 attended/61 invited scientists (3 working outside Mexico), 18 academic institutions

http://www.redtic-conacyt.mx/node/11
**METHODOLOGY AND IMPLEMENTATION**

- CONACyT networks: contact people in the country that encourage and organize the community
  - RedTIC, [http://www.redtic-conacyt.mx](http://www.redtic-conacyt.mx)
  - See details Tomás Viveros García, CONACYT, panel in this summit
- Workshops and get-together meetings animated by networks
  - Challenges and research axes in ICT in Mexico
  - Network CFP: censing groups, leaders and active(ist) scientists
  - **Concrete actions: seed projects, working groups, thematic schools**
- Aggressive international and industrial relationships actions
  - National global ICT gallery: research, international labs, projects, clusters
  - Extend the gallery to the LATAM region: showrooms in other regions English(Fr) speaking America, Europe (e.g., LATAM ICT – stand for ICT EU conference)
  - Contact with industrial ICT clusters in important regions like Guadalajara and Monterrey: workshops with invited observers such as the FP7 chancellors
LATAM RESEARCH LABS ON TICS: STEP FORWARD PIONEER ACTIONS

OBSERVATION AND EXPERIMENTAL PHASE
(COURTISAGE)

- Organisation
- Identification of groups and topics

Virtual labs

Who is who?

- Research agendas
- Community map
- Learning cooperation

Research centres

- High level research with hybrid groups
- R & D actions

PIioneer PHASE
(FIANÇAILLES, LONG LAST MARRIAGE)

Fundamental research

Applied research
LATAM RESEARCH LABS ON TICS: STEP FORWARD PIONEER ACTIONS

• Europe@LATAM: research units on research and development challenges
  • Research international units (CNRS, FR): Chile, Brazil, Argentina, Mexico
  • Programs: ECOS-LATAM, DAAD-LATAM under P2P actions, STICAMSUD groups, CyTED (ALICE), FP# (e.g., Euralinet)
  • Human resources: graduate fellowships, dual diploma actions, e.g., F-M doctoral school signed by CONACyT-ANUIES

• English(Fr)-speaking America@LATAM
  • MICROSOFT LABS LACCIR, LAB IN SAO PAULO: observatories, N-N projects
  • NSF and Canada programs
SCALE PRESENCE AND INTERNATIONAL QUALITY: LATAM R&D ACTIONS

Unbury the mirror (cf. El espejo enterrado, Carlos Fuentes)

• X-RAY of the region: real measures of the “intellectual” critical mass
  • PROJECT 1: Integrate databases of researchers and national and international projects
  • PROJECT 2: censing TIC industry in the region → databases and regional clusters

• Contribute for triggering development and innovation, producing technology, knowledge
  • PROJECT 3: Propose a common ICT program inspired by the FP7 program calls
    • Regional bourses for developing regional challenges (capitalize actions like LACCIR)
    • Human resources: encourage brains actively contributing to the region development, LATAM doctoral common faculties
Thanks to ICT José Martí can catch the boat this time

Let us make his(our) dream come true!