

ITU-T Kaleidoscope 2009

Innovations for Digital Inclusion

Global efforts on Bridging the Digital Divide and the role of ICT standardization

Mário Rodrigo Canazza
Anatel (Brazil)
marioca@anatel.gov.br

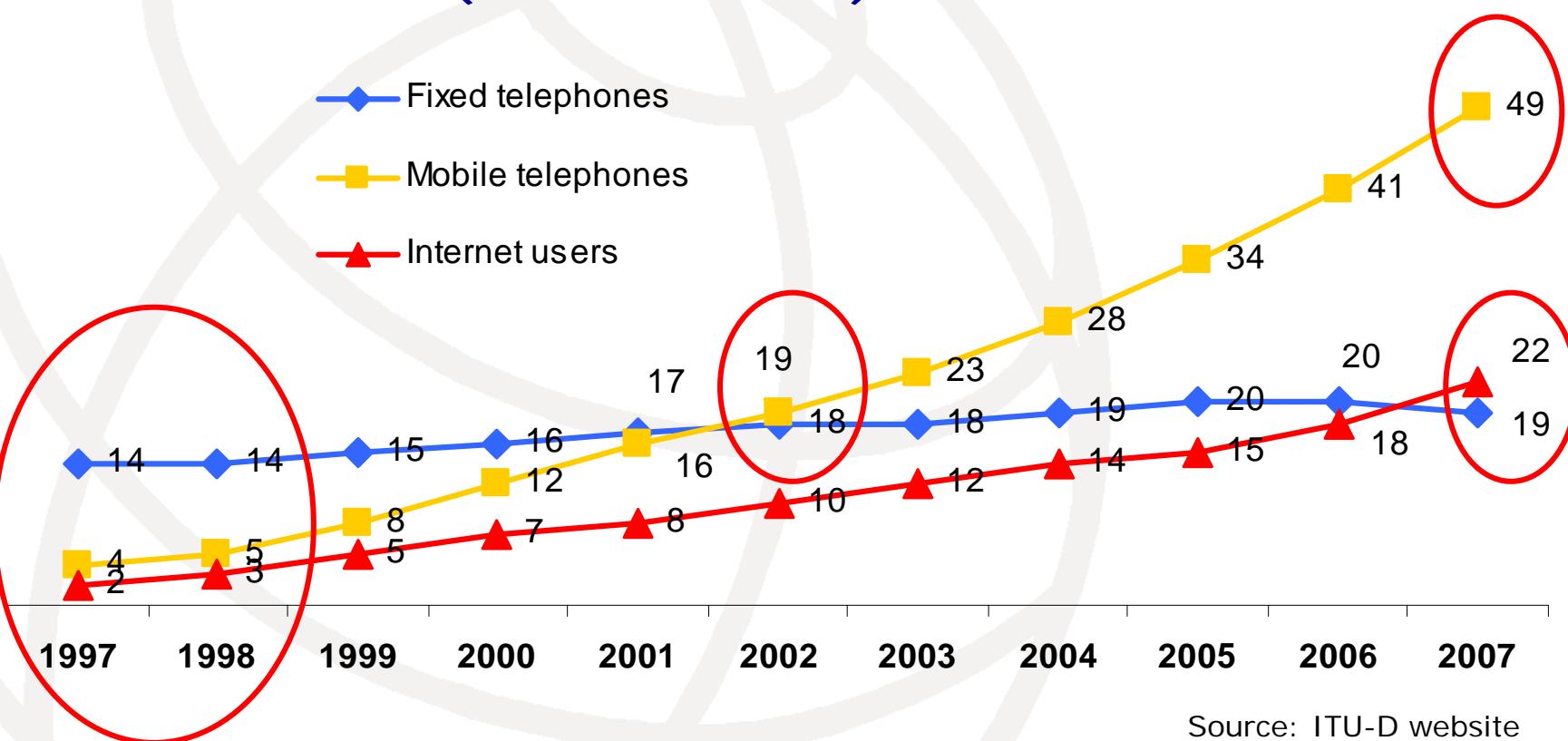
Mar del Plata, Argentina, 31 Aug – 1 Sep 2009

Agenda

- Background
- Assessing the Digital Divide
- National strategies on Bridging the Digital Divide
- Global efforts on Bridging the Digital Divide
- The role of ICT standardization
- Conclusion

Background

■ Telephone and Internet penetration rates worldwide (1997-2007)



Source: ITU-D website

Background

■ Trends:

- ➔ Slowdown in fixed telephone penetration
- ➔ Great increases in mobile phone and Internet penetration
 - Mobile phones -> multimedia devices
 - Internet speeding up social, cultural and economic interactions
 - ICTs evolution -> Internet Economy

Background

■ Issues:

- ➔ Uneven ICT development
 - Trendsetters x Trend-followers
 - Economic drawback
- ➔ Gap in the adoption of new technologies:
 - Gap in access and knowledge
- ➔ DIGITAL DIVIDE

Background

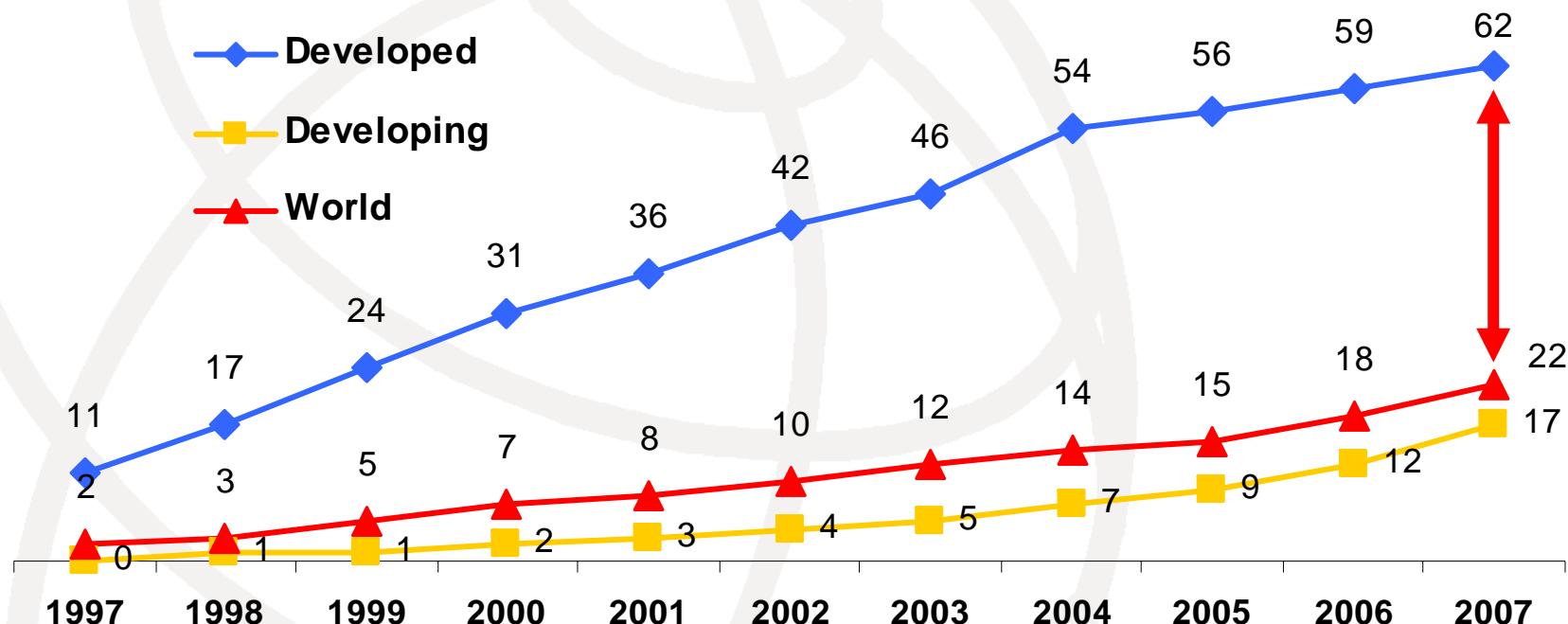
- 1998: Resolution 73 of the ITU Plenipotentiary Conference
 - ▶ Highlighted the importance of ICTs to social and economic development
 - ▶ Started the organization of WSIS
- 2000: UN Millennium Summit
 - ▶ Millennium Development goals: to ensure that ICTs are available to all

Assessing the Digital Divide

- Wealth gap between countries
 - ▶ Gap in financial investment potential
 - ▶ Gap in science, education and knowledge (human resources)
- The role of ICTs
 - ▶ Reduce these gaps
 - ▶ Foster economic and social development

Assessing the Digital Divide

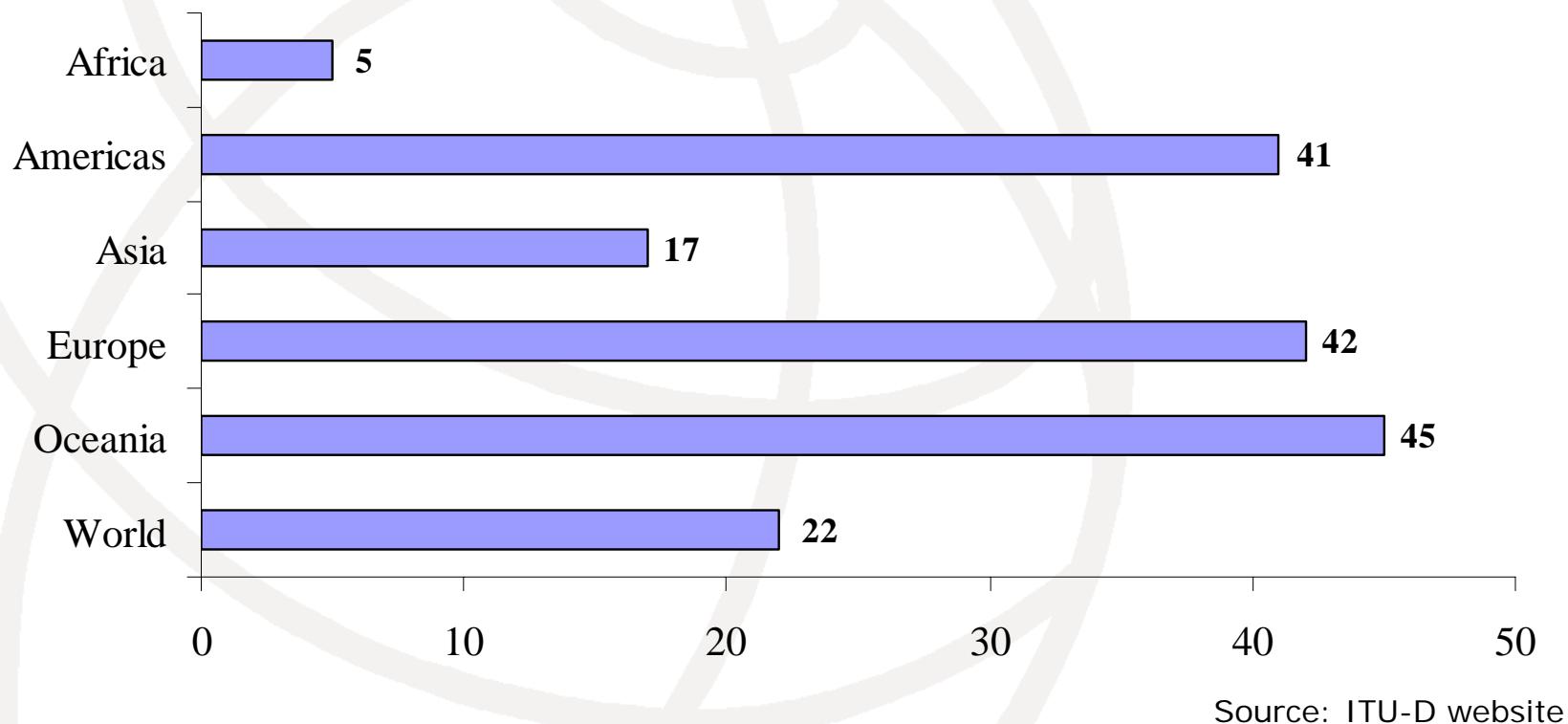
■ Internet penetration rate (1997-2007)



Source: ITU-D website

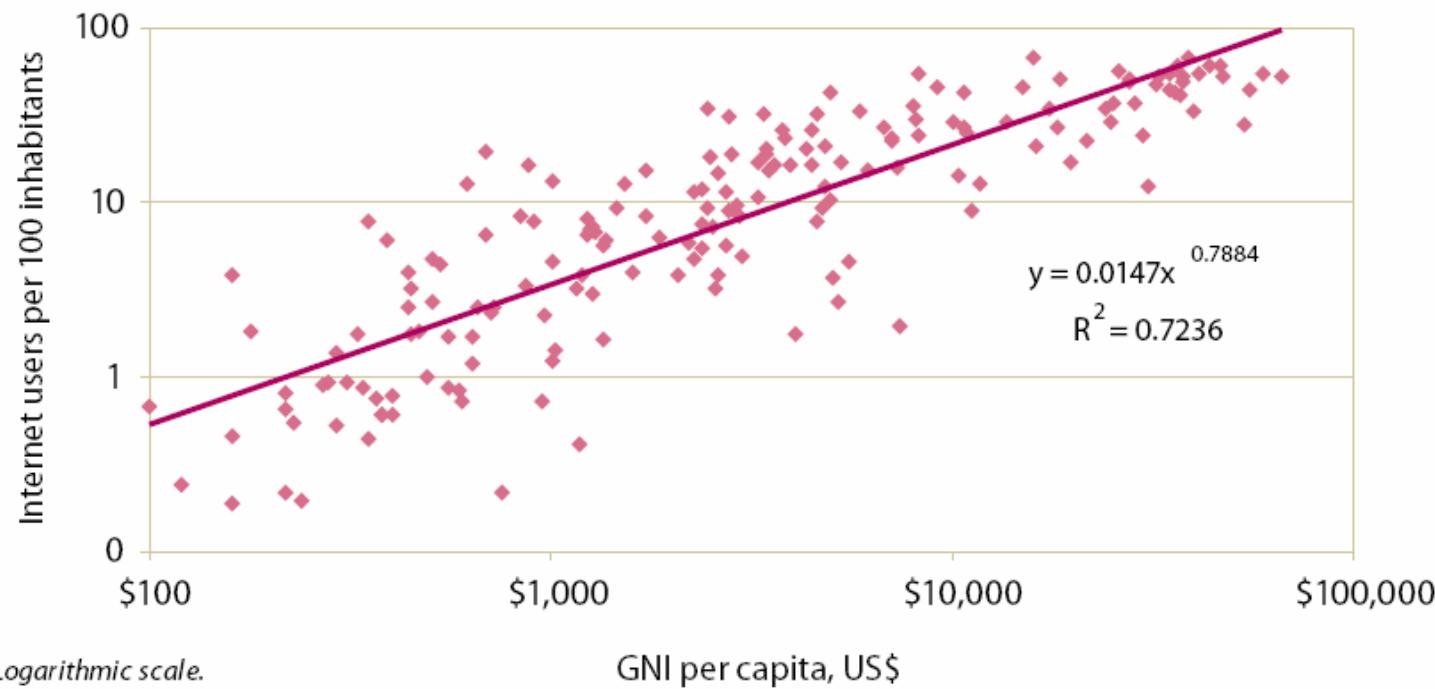
Assessing the Digital Divide

■ Internet penetration per region (2007)



Assessing the Digital Divide

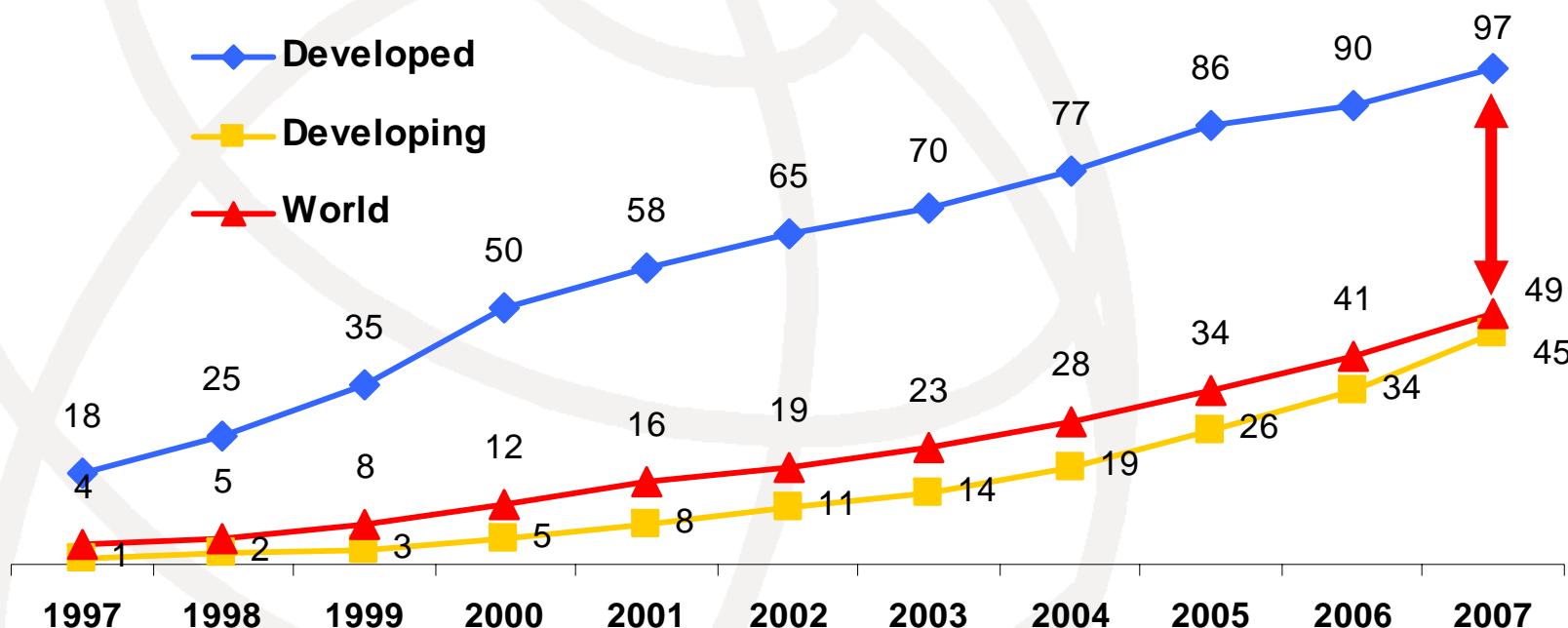
- Correlation between GDP per capita and Internet usage (2005)



Source: WSIS 2007 Report

Assessing the Digital Divide

■ Mobile Phone penetration rate (1997-2007)



Source: ITU-D website

National strategies on Bridging the Digital Divide

- Goal: to provide affordable and non-discriminatory access to ICTs
 - ➔ Market alone cannot guarantee universal access/coverage
- Governments fostering competition and an enabling environment
 - ➔ Market regulation
 - ➔ Direct/indirect investment

Global efforts on Bridging the Digital Divide

- ITU-D World Telecommunication Development Conferences (WTDC) 2002, 2006 and 2010
- ITU Plenipotentiary Conferences 2002, 2006 and 2010
- World Summit on the Information Society (WSIS) 2003 and 2005
- ITU-T World Telecommunication Standardization Assembly (WTSA) 2004 and 2008

The role of ICT Standardization

- Paragraph 44 of WSIS Declaration of Principles
- Benefits:
 - ➔ Economies of scale and scope in production and distribution
 - ➔ Interoperability, interconnection and global connectivity
 - ➔ Convergence of applications
 - ➔ Involvement of developing countries

Conclusion

- Bridging the digital divide leads to digital inclusion
- Digital inclusion is determinant to economic development
- ICT standardization can facilitate the development and adoption of ICTs

Conclusion

■ Challenges:

- ▶ Enhancing cross-border trade policies
- ▶ Adapting regulations to the rapid development of ICTs
- ▶ Promoting e-literacy
- ▶ Fostering investment and infrastructure
- ▶ Handling climate change issues
- ▶ Building recognized international standards
- ▶ Involving developing countries



Thank you very much!

¡Muchas gracias!

Mário Rodrigo Canazza
Adviser of International Affairs
National Telecommunication Agency of Brazil
marioca@anatel.gov.br