ICT Training, Employment and Youth: The Case of Brazil, Colombia and Mexico
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ICT Training, Employment and Youth:
The Case of Brazil, Colombia and Mexico

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Information School

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Executive Summary

Issue background

According to UN data, young people aged 15-24 account for around one-quarter of the world’s working-age population but half of the unemployed. Young people also account for nearly a quarter of the world’s working poor, unable to lift themselves and their families out of poverty. They often struggle to survive, performing work under unsatisfactory conditions in the informal economy.

Policymakers readily realize that a skilled workforce is a pivotal component for spurring economic innovation, growth and competitiveness, and that ICT (information and communication technology) skills are a key ingredient in this equation. When looking at youth in particular, ICT training is also fundamentally important for the following reasons:

- This training is a valuable tool for improving the youth underemployment situation—for creating opportunities for higher-paying jobs.
- For disadvantaged youth, ICT training can also help expand employment opportunities. These youth often face obstacles such as a poor education, a lack of basic ICT skills, good social networks for finding jobs, and financial support for starting businesses.
- ICT training and skills are important catalysts for developing other social and creative skills.

The relative disadvantage of youth is more pronounced in developing economies where youth make up a much higher proportion of the labor force than in industrialized economies. According to UN data, global youth unemployment stood at 14.4% in 2003 (up 27% from 1993), with the highest rates in the Middle East and North Africa (25.6%), followed by Sub-Saharan Africa (21%), transition
economies (18.6%), Latin America and the Caribbean (16.6%), Southeast Asia (16.4%), South Asia (13.9%), industrialized economies (13.4%), and East Asia (7%). Industrialized economies were the only region where youth unemployment dropped between 1993 and 2003, down 15.4 percent.

ICT training programs targeting youth are particularly relevant for Latin America where youth unemployment was already high and has trended even higher in recent years. In Mexico, 14-29 year-olds account for 60% of the unemployed. In Brazil, youth unemployment has nearly doubled over the last ten years to 19%, which is 3.5 times higher than for adults. In Colombia, one-quarter of the country’s 12-24 year-olds are unemployed.

<table>
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<th>Youth and Unemployment in Several Countries</th>
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<td>Unemployed youth as a percentage of the total unemployed population (%)</td>
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<td>Brazil</td>
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Source: IPEA

Despite this focus on ICT training, it is important to also note that ICT skills are almost never the missing link that miraculously transforms employment prospects. Lower wage, lower skill workers typically face multiple barriers, many of which are more complex than unfamiliarity with email or word processing. ICT literacy cannot be isolated from the larger social and personal contexts. Soft skills as well as solutions to challenges such as childcare, transportation, time, and appropriate attire are important. Homeless and immigrant populations operate under additional constraints. The hurdles are diverse and individualized and ICT must be integrated into this larger context of needs in order to credibly advance employability and economic opportunities for low-income groups.
Study background

This study analyzed the contribution of ICT training to improving the employment and economic opportunities for disadvantaged youth. Training programs at centers run by NGOs in three countries were studied—Brazil, Colombia and Mexico—with the goal of determining whether these programs had an impact on labor participation in terms of job searching, employment, and businesses starts (or improvements to existing businesses).

This study was designed to address the following research questions:

- What types of ICT skills are taught in these programs?
- How effective are they at creating employment opportunities?
- How do NGOs train youth for entrepreneurial and business activities?
- What partnerships are NGOs building to support economic and social development?
- Why NGOs? What is their role and why is it important to develop a better understanding of their work?
- Do the students of these programs perceive that ICTs can improve their quality of life?

The ICT training programs and beneficiaries included in this study had the following profile:

- One hundred respondents were sampled as part of this study
- Between 24% and 43% (varying by country) were already working full-time while taking this ICT training
- Most were women
- Most were from low-income households
- Most were already familiar with a wide range of computer applications, particularly web browsers and email
- Most were active users of mobile phones—85% in Brazil and Colombia
• Over three-fourths had at least a high-school education; an additional 9-14% possessed a college degree.

• The popularity of specific training courses varied by region.

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Financial support for this study was provided by a grant from Microsoft Community Affairs under the Unlimited Potential Community Technology Skills Program (CTSP). This program broadens digital inclusion and global workforce development by providing technology skills through community technology centers.

**Summary of findings**

The three countries studied in this report—Brazil, Colombia, and Mexico—produced similar research findings:

• Program graduates believed that the ICT training they received helped them overcome economic and social constraints (that is, it offered them more opportunities).

• The ICT skills that graduates acquired made them feel empowered and gave them new opportunities to teach others and seek employment.

• Training helped build self-esteem and gave graduates a sense of satisfaction because they had expanded their opportunities.

• The positive perceptions and high expectations of graduates did not always translate into employment.

• Around half (varying by region) of graduates studied looked for work after taking these courses, but less than one-quarter found work; only 2-9% started a business.

• The percentage of graduates able to apply their new computer skills in their new jobs varied widely by region.

• Training center leadership was key for both the effective fulfillment of training objectives and the building of partnerships for center sustainability and the employment of its graduates.
Public policies played a key role in the success of training centers. There are several public, private and NGO initiatives designed to promote access to ICT in underserved areas. However, the lack of coordination between these often led to duplicated, ineffective efforts.

The NGOs in this study were doing strong work in the ICT access and training phases of their programs but not on the bridge to the labor market phase (see recommendations).

The international entities that support NGOs also played a key role. International entities have traditionally supported NGOs in Latin America by providing start-up financing. Although this type of funding is valuable for launching programs, these programs require ongoing support in terms of funding and monitoring of training.

**Recommendations**

- NGOs are important bridges into the labor market and are often better positioned to seek relations to employers than the beneficiaries. These partnerships can take different forms, such as jobs databases, on-the-job training programs, training programs which tailored to meet the needs of the local labor market, local company contributions to center sustainability, and more.

- NGOs need to strengthen their organizational and strategic capacities for designing and implementing programs with employment goals, with an emphasis on monitoring and learning from the experiences of other programs and program graduates. Specifically, NGOs need to improve their capacity to partner with employers and to improve and expand their job placement services.

- Leadership is a key variable for both the effective fulfillment of training objectives and the building of partnerships for center sustainability and employment of graduates. Training center leaders must have a thorough knowledge of the center, a clear vision, capacity for innovation and a network of potential contacts.
• Regional governments can provide the needed leadership and coordination for public policy efforts by publicizing the experiences of and promoting partnerships between NGOs and/or between NGOs and private businesses.

• Beneficiaries who complete basic courses should also be able to receive additional training in more specialized courses, and business training.

• Pre-training objectives need to be better defined. For instance, are students looking for ICT training in order to improve their business contacts, to get a particular job with a particular company, or to start their own business?

• More follow-up on trainees is needed in order to track their progress in the labor market. To this end, a database should be built to track students attending these courses.
This study seeks to analyze ICT training as a strategy for incorporating disadvantaged youth into the economy. To this end, we analyzed youth training programs at centers run by NGOs in three Latin American countries: Brazil, Colombia and Mexico.

**KEYWORDS**

ICT, information, communication, technology, training, telecenters, skills, employability, employment, underemployment, youth, Latin America, Mexico, Brazil, Colombia, NGOs.

**RECOMMENDED CITATION**


**DESIGN**

Cover by Rossy Castro and report layout by Mario Popucce at IEP (Instituto de Estudios Peruanos).
For disadvantaged youth, training in information and communication technologies (ICTs) can help expand their employment opportunities. This study analyzes the youth employment impact of selected ICT training programs in Brazil, Colombia, and Mexico.

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This study was conducted by the University of Washington’s Center for Information & Society (CIS) as part of its Research Paper Series. To download a copy, please visit www.cis.washington.edu. CIS gratefully acknowledges the support of Microsoft Community Affairs for their support of this study under a grant from the Microsoft Unlimited Potential Community Technology Skills Program.

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