Callao Region Project – A Digital City

Recognizing that future prosperity depends on technology, the regional government of Callao, Peru has embarked on an initiative to create a “digital city.” This effort draws its vision from the 1:1 eLearning program being built into the education system.

Drawing on the transformative effects of the Intel LS total solution, the project’s leaders are creating a modernized public society that uses technology and applications to provide new services and facilities to its people. The digital city concept employs pervasive technology and wireless access to improve not only education, but also citizen access to open government, health services, public safety, and much more.

“"We need to prepare them for a world that is RAPIDLY changing, for a knowledge-based society and a GLOBAL economy.”

– Leafar, a key partner in the implementation of digital and integrative interactive solutions in Callao
**Setting a Course for the Digital Future**

As a result of their effort to transform the education system using technology, which is in many ways the heart of the digital city concept, Intel LS expertise and resources benefited Callao regional government officials. The Intel LS history of success covers more than 70 countries, 20 languages, and the deployment of seven million devices.

Another critical contributor to success is the global Intel® Learning Series Alliance, consisting of more than 500 member companies that are helping bring Intel LS solutions to life through proven solutions optimized for Intel LS devices.

Together, the Callao regional government and Intel LS engaged with the educational community, Intel LS Alliance member companies, and other local entities to create a blueprint for the region's digital future. The 1:1 eLearning initiative, in the context of the broader digital city project, includes the following components:

- **Bonuses to teachers for the purchase of laptops** as part of the project “Teachers of the 21st century: A laptop for every teacher,” resulting in the delivery of 5,935 laptops.

- **Educational technological infrastructure** including wireless interconnection of educational institutions as well as PCs and 47-inch LCD TVs as audiovisual tools in classrooms.

- **A wireless metropolitan network** that allows the interconnection of public institutions such as schools, hospitals, health centers, police stations, and fire stations, as well as free Internet access in many areas.

- **Intel® Education Essential Course**, a free online tutorial for the general population that supports public use of the EduCallao educational portal (see sidebar).

- **Integration of information and communications technology (ICT)** into the administration and management of educational institutions.

“We are committed to the transformation of the Peruvian education, with models oriented to the twenty-first century, where the skills of the students and teachers are based on training and support. The leadership and vision of the Callao region have placed the education of children and young people in a primary place by joining efforts and innovative education strategies.”

- Jessica Freundt, Intel Education Manager

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**Virtual Education Resources for All**

The EduCallao educational portal is a novel and important part of the educational transformation in Callao. Open to the general public, the portal provides various resources to improve the quality of education, such as the following:

- **Virtual library** with more than 5,000 learning objects

- **Virtual classroom** with monitoring and management tools for administrators, teachers, students, and parents

- **Virtual courses** delivered as free distance-learning offerings
A Transformation in Progress

As the development of Callao as a digital city continues, the Intel LS solution in Peru gathers momentum and a record of success. Beginning in November 2009, work on 1:1 eLearning pilot initiatives has been ongoing, acting as proofs of concept and refining planning efforts.

In a test group for 2010 and again in 2011, each of 42 students was given an Intel classmate PC and Wi-Fi* access in their classes during their last year of secondary school. Particular emphasis is placed during these trials on college preparatory work. Teachers have received professional development support through the Intel® Education Program that has helped them effectively integrate ICT into their existing curricula.

Preliminary results have been favorable. Students also had the opportunity to meet with Dr. Zhang Zuoyu, from the Department of Education of the People’s Republic of China and General Director of the Education Commission in the Shanxi province, when he visited Lima for an event held in the National Congress. This esteemed visitor responded favorably to the progress made by both students and teachers, providing further encouragement as progress continues.

Future plans for the transformation of education in the emerging digital city of Callao include expanding the number of students in the pilot group to 500 and the number of teachers to 25. On track to including a far broader population of students, the program will also be expanded to include the last two years of secondary school, instead of just the final year. Ongoing development of the program promises to help even more children be ready to transform the future, reaching out from this key South American port city into the global information economy of tomorrow.

Intel® Learning Series helps prepare students for success in the twenty-first century knowledge-driven economy. The Intel Learning Series enables teachers to have the freedom to focus on teaching while monitoring student progress and accelerating education outcomes.
What is your vision for the future? Please contact your local Intel representative to discuss how to deploy a sustainable education program based on technology in your country.

Visit us on the Internet at:
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