

**INTER-AMERICAN DEVELOPMENT BANK**

**WORKSHOP ON THE INCORPORATION OF TECHNOLOGIES IN EDUCATION: LEARNING  
FROM THE KOREAN CASE  
(CH-T1077)**

**TECHNICAL COOPERATION PROGRAM  
TC FUNDS BRIEF**

**I. BASIC PROJECT DATA**

<b>Beneficiary country:</b>	Chile
<b>Executing Agency:</b>	Library of the National Congress (BCN)
<b>End Beneficiaries:</b>	This results of this program will benefit the Ministry of Education and therefore its schools and students.
<b>Project team:</b>	Claudia Uribe (SCL/EDU), Team Leader; Paola Robles (CSC/CCH); Claudia Cox (SCL/EDU); Cintia Guimaraes (CSC/CSC), Bethany McCurley (SCL/EDU); Marina Bassi (SCL/EDU)
<b>Date of Request:</b>	August 10, 2007
<b>Trust fund:</b>	Knowledge Partnership Korea Fund for Technology and Innovation
<b>Financing plan:</b>	IDB (KPK): US\$56,500 Local: US\$40,000 Total: US\$96,500
<b>Execution period:</b>	6 months
<b>Disbursement period:</b>	12 months

**II. BACKGROUND**

- 2.1 The workshop on "Incorporation of Technologies in Education: Learning from the Korean Case," falls within the Asia Pacific Node Project of the Library of the National Congress (BCN), whose objective is to aid citizens to become more familiar with Asia and to better understand the relations between Chile and the Asian countries, as well as their importance in Chile's development as a nation. The workshop, sponsored by the Ministry of Education, seeks to bring a group of experts together in an atmosphere of dialog and conversation, in order to explore an area of vital importance to the growth of Chile: education.
- 2.2 The Korean education system is internationally renowned for its high standards in the development of human resources, as evidenced by the latest Trends in International Mathematics and Science Study (TIMSS, 2003), which placed Korea third worldwide. Furthermore, the Korean model takes on special relevance because of the progress and impressive results it has achieved in a short period of time (less than 30 years), presumably due to the tremendous efforts made to

incorporate Information Technologies (IT) into its classrooms, through the use of video games, computers, multimedia equipment, and television.

- 2.3 Chile is currently experiencing a period of change and adjustment in its educational model. A series of pilot projects have been implemented in which new technologies are playing a more important role in the classroom. So far these changes have produced promising results in terms of acquisition of knowledge by the students, improved participation in classes, and promoting better ways of teaching.
- 2.4 If Chile can more closely examine the practices of Korea, a nation clearly more developed in this field, and can apply some of its techniques, it is highly likely that the Chilean education system will achieve a significant improvement in its overall quality of education.
- 2.5 The Korean experience can serve as a benchmark for Chile, since Chile ranks first in Latin America with respect to its level of informatics and digitalization. In addition, Chile is a transparent country, which is one of the most important social conditions for the development of IT. Korea has had considerable experience in this area, especially in the application of IT to a wide range of socio-economic groups and in establishing a strong interrelationship between ICTs and education.

### **III. PROGRAM OBJECTIVE**

- 3.1 The objective of the proposed workshop is to examine the current Korean education system and how it has achieved its high quality standards with a special focus on the importance of Information Technology and how it has been incorporated into the Korean school curricula. In addition, a comparison will be made between the Chilean and the Korean education systems, in order to develop a proposal for including the suitable positive aspects of the Korean experience in the Chilean system. Of particular interest are the role of technology in science education and e-learning, and the role of teachers in a technology-saturated classroom. Participants in the workshop will include government employees, Minister of Education officials, officials from the National Congress, parliamentarians, teachers, and students.
- 3.2 In addition to the workshop, a half-day session of analysis and application possibilities will be conducted with congressional members who serve on the Committees of Education in the Senate and in the Chamber of Deputies of the National Congress of Chile. Likewise, the education experts will conduct a one-day workshop with people who work in the Enlaces (Links) Program and at the Center for Advanced Education of the Ministry of Education (MINEDUC).
- 3.3 The participation of Korean experts and other representatives of the Korean education system who are involved in the areas to be studied is critical to ensure the success of this workshop. Therefore, BCN and MINEDUC have requested the support of the IADB (Korean Funds) to pay for travel expenses of these Korean

experts. Without the funds, it is doubtful that Chile could achieve neither the social impact it is seeking, nor the interconnection with the citizenry regarding this topic of such vital importance for the education system.

#### IV. DESCRIPTION

- 4.1 This technical cooperation will have two components:
- 4.2 **Component 1: Learning from the Korean Experience:** This component will finance: (i) travel expenses for three Korean experts to visit Chile for seven days; (ii) a workshop to be held at La Moneda Cultural Center, with the participation of the three Korean Specialists and a group of Chilean experts as well as other participants from the Ministries of Education and Telecommunications, universities, and research centers, among others; and (iii) two training sessions for personnel of the Ministry of Education.
- 4.3 The discussions will follow presentations by the experts on: (a) an explanation of how the Korean education system works; (b) how reforms have been carried out within that framework; (c) what has been the impact of their improvements; (d) the incorporation and use of technology in the classroom; (e) the new role of teachers in a technology saturated environment in education; (f) the role of parents as tutors in the success of the Korean education system; (g) how proactive and consistent evaluation systems have been applied; (h) how Chilean results can match those of Korean (quality, quantity, and scope); (i) proposed targets/results, both from the Korean and Chilean experts, so that Chile's education system can emulate some of the Korean achievements.
- 4.4 The methodology of the workshop will comprise presentations given by experts in the areas mentioned above. It should also be mentioned that some presenters will include demonstrations on how to use Information Technology in teaching; for example, multimedia programs, the use of television in teaching, and the use of educational video games to enhance learning.
- 4.5 **Component 2: Dissemination:** This component will finance the elaboration and publication of a technical note that includes the presentations of the experts, the main conclusions from the training sessions as well as the recommendations for the Chilean Education system that can be derived from the workshop. The note will be published and posted in the website <http://asiapacifico.bcn.cl>.

#### V. JUSTIFICATION

- 5.1 **Value Added of this Technical Cooperation:** The workshop will not only allow Chileans to study and learn from a successful educational model, but will also demonstrate how the Koreans achieved their objectives and obtained such impressive results. It will show some of the weaknesses of the Chilean education system, and provide tools and practical experiences that will potentially remedy these problems and achieve overall improvement in teaching methodology.

- 5.2 It is understood that, due to the differences in the Chilean and Korean situations, the Korean model cannot be implemented in its entirety, but rather will have to be adequately adjusted and adapted to fit Chile's education system. Those elements that truly serve to address the deficiencies of the Chilean system will need to be identified, adapted, and incorporated. Through the dialogue generated as part of the workshop, the Chilean and Korean experts will discuss which methodological aspects should be implemented, which can be put into practice in the near future, which should come later, and which should be discarded.
- 5.3 The fact that many officials from MINEDUC and the National Congress will be in attendance will make this an opportunity for people directly involved in the administration of the Chilean education system to see an example of a successful system, how it was successfully implemented, and how it could be applied in Chile.
- 5.4 As a result of the activities described above, this project hopes to become an event that will show the way forward for the Chilean education system. Not only will Chile's educational leaders be able to examine the advantages of a successful foreign educational model, but also the process of how to apply solutions based on that model; this will be tremendously beneficial, especially given the vicissitudes the system currently faces.

## VI. COST AND FINANCING

- 6.1 The TC budget is as follows:

**Table VI-1**  
**Detailed budget**

Type of expense	KPK US\$	Local US\$	Total US\$
<b>Component 1: Learning from the Korean Experience</b>	<b>41,336</b>	<b>40,000</b>	<b>81,336</b>
<b>Travel expenses</b> 3 tickets x 3 experts from Korea (US\$10,000 each)	<b>30,000</b> 30,000		<b>30,000</b> 30,000
<b>Per diem</b> 3 experts x 7 days (US\$216 day)	<b>4,536</b> 4,536		<b>4,536</b> 4,536
<b>Other services</b> Interpreter, photograph, service, equipment for translation, recording service, other.	<b>6,000</b> 6,000		<b>6,000</b> 6,000
<b>Workshop locale</b>	<b>800</b>		<b>800</b>
<b>Other workshop expenses</b> Food services; Site preparation; Printing; Sound and technical equipment; Secretarial services; Assistant personnel; products for distribution; Publicity; Communication and press; Producer Fees.		<b>40,000</b> 40,000	<b>40,000</b> 40,000
<b>Component 2: Dissemination</b>	<b>15,164</b>		<b>15,164</b>
<b>Elaboration of technical note (1 local consultant)</b>	<b>6,000</b>		<b>6,000</b>
<b>Publication of note</b>	<b>8,000</b>		<b>8,000</b>
<b>Contingences</b>	<b>1,164</b>		<b>1,164</b>
<b>Total</b>	<b>56,500</b>	<b>40,000</b>	<b>96,500</b>

## VII. EXECUTION

- 7.1 **Executing Agency.** The Library of National Congress (BCN) is the proposed executing agency. BCN will co-sponsor the workshop with the Ministry of Education, and will be responsible for the identification and contact of key experts from Korea.
- 7.2 **Technical Responsibility.** The country office in Chile (CSC/CCH) will have the basic disbursement responsibility. Paola Robles (CSC/CCH) will coordinate this TC in collaboration with Claudia Uribe (SCL/EDU) in headquarters.

## VIII. ENVIRONMENTAL AND SOCIAL STRATEGY

- 8.1 No potential negative environmental or social impacts are foreseen, and therefore this project has been Classified as “C” according to the Safeguard Classification tool.

## IX. RECOMMENDATION

- 9.1 Claudia Uribe, designated team leader for the project of the reference, recommends the approval of this operation and the use of resources from the Knowledge Partnership Korea Fund for Technology and Innovation (KPK) totaling up to US\$56,500 in order to finance the corresponding project.

## X. CERTIFICATION

- 10.1 I hereby certify that this operation was approved for financing under the Knowledge Partnership Korea Fund for Technology and Innovation (KPK) through a memo dated on December 17, 2007 and signed by Hyunghwan Joo, Senior Advisor and KPK Program Coordinator. Also, I certify that resources from the KPK are available for up to US\$56,500 in order to finance the activities described and budgeted in this document. This certification reserves resources for the referenced project for a period of eleven (11) calendar months counted from the date of signature below. If the project is not approved by the IDB within that period, the reserve of resources will be cancelled, except in the case a new certification is granted. The commitment and disbursement of these resources shall be made only by the Bank in United States dollars. The same currency shall be used to stipulate the remuneration and payments to consultants, except in the case of local consultants working in their own borrowing member country who shall have their remuneration defined and paid in the currency of such country.

- 10.2 No resources of the Fund shall be made available to cover amounts greater than the amount certified herein above for the implementation of this TC Brief. Amounts greater than the certified amount may arise from commitments on contracts denominated in a currency other than the Fund currency, resulting in currency exchange rate differences, for which the Fund is not at risk.

<i>Original signed</i>	Jan 27, 2008
<hr/> <b>Hyunghwan Joo, Sr Advisor</b> VPC/GCM	<hr/> <b>Date</b>

<i>(p.) Original signed</i>	Jan 28, 2008
<hr/> <b>Marguerite S. Berger, Chief</b> VPC/GCM	<hr/> <b>Date</b>

**XI. APPROVAL**

<i>Original signed</i>	Jan 29, 2008
<hr/> <b>Marcelo Cabrol, Chief</b> SCL/EDU	<hr/> <b>Date</b>

Concur:	<i>Via email</i>	15 January 2008
	<hr/> <b>Jaime Sujoy, Representative</b> CSC/CCH	<hr/> <b>Date</b>



GOBIERNO DE CHILE  
MINISTERIO DE HACIENDA  
Dirección de Presupuestos  
QQ 048 \* 20.03.08

*OSF*

Señor  
Jaime Sujoy  
Representante  
Banco Interamericano de Desarrollo  
Presente

Santiago, - 3 ABR 2008

- Ant: 1) Carta N° CCH-180-ES1-C/08, de 30 de Enero de 2008, de Sr. Encargado de la Representación del BID.  
2) Carta N° CCH-448-ES1-C/08, de 19 de Marzo de 2008, de Sr. Encargado de la Representación del BID.
- Mat: Solicitud de No Objeción para donación del Fondo de Financiamiento de Operaciones de Cooperación Técnica para Iniciativas para la Integración de Infraestructura Regional, Programa IIRSA. Estudio de Conectividad Argentina-Chile.

De mi consideración:

Mediante cartas del antecedente, el Sr. Encargado de esa Representación, ha tenido a bien solicitar la no objeción del Gobierno de Chile respecto de la operación de la materia, consistente en una donación del Fondo de Financiamiento de Operaciones de Cooperación Técnica para Iniciativas para la Integración de Infraestructura Regional (IIRSA) por un monto de hasta US\$880.000, destinada al financiamiento parcial del Programa "Estudio de Conectividad Argentina-Chile".

De acuerdo a lo solicitado por los países, el Organismo Ejecutor del programa será el Banco Interamericano de Desarrollo.

El costo total del programa asciende a US\$1.100.000 y los recursos de contrapartida local, por parte de Chile y Argentina, por la suma total de US\$220.000, serán divididos en partes iguales.

Al respecto, cúpleme informar a usted que el Gobierno de Chile no tiene inconvenientes en que se lleve a cabo la operación, en los términos propuestos, otorgando su no objeción a la misma.

Sin otro particular, saluda atentamente a usted,



*Alberto Arenas de Mesa*  
ALBERTO ARENAS DE MESA  
Director de Presupuestos

c.c.:/

- Sector Infraestructura, Dipres.