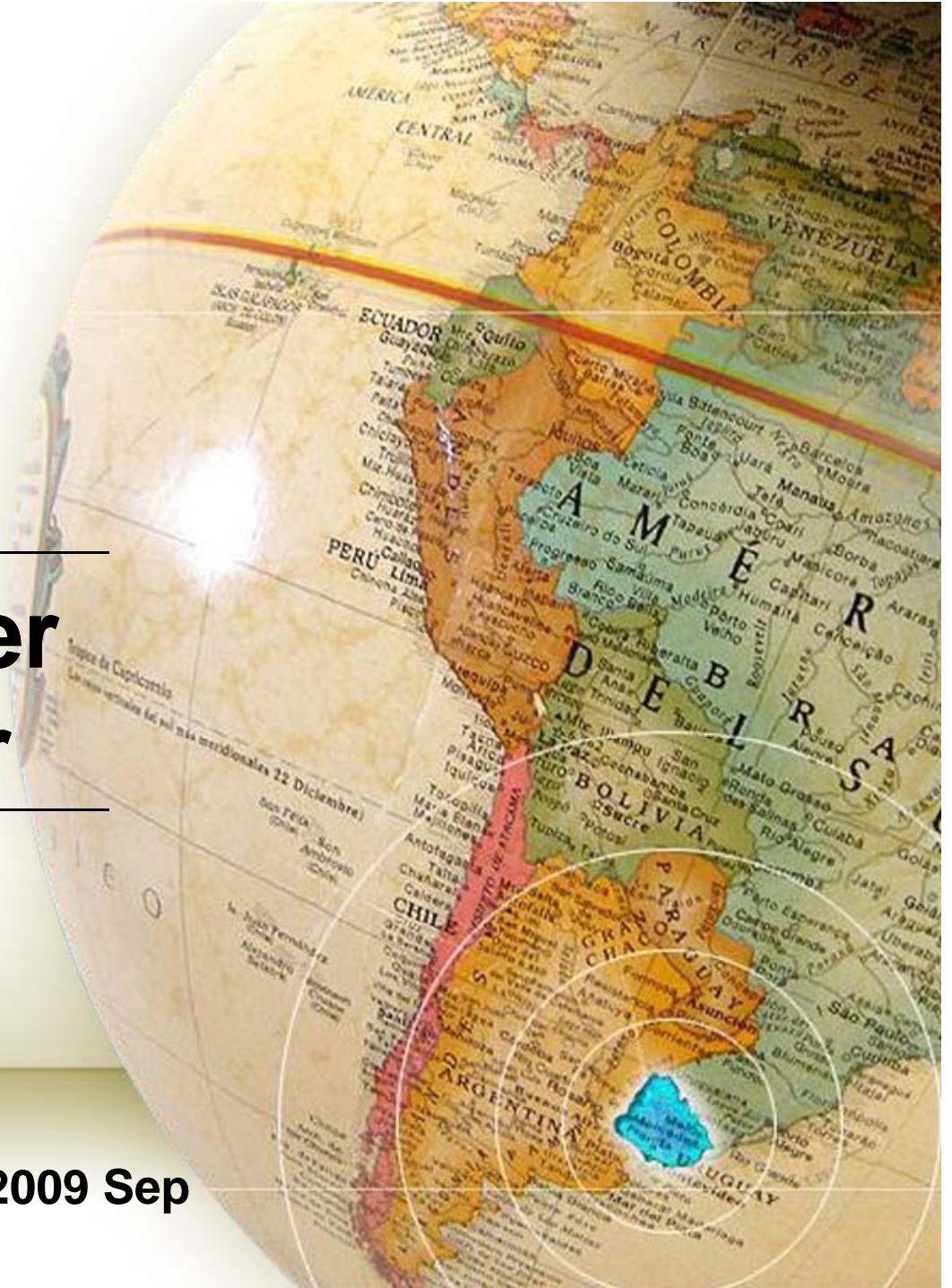


Plan Ceibal

One Laptop per Child and per Teacher

Miguel Brechner, Washington, 2009 Sep





Plan Ceibal

Reinventing Uruguay



Full Deployment by September 2009

**We have left the era BC (Before Ceibal)
to go to AC (after Ceibal)**

Not an ICT program

**New environment new ways of thinking
Quantum Mechanics vs Newton**

What was a privilege in 2006 is a right in 2009



Proyecto Ceibal



Plan Ceibal

Pillars of Plan Ceibal

EQUITY

Equity All Children and teachers in Public School receive a Laptop.

LEARNING

Learning New tools for learning, new contents, new forms of education

TECHNOLOGY

Technology Wireless Internet Connection in Schools, Public Places and many homes.

Plan Ceibal



Plan Ceibal

What has Uruguay shown?

- 1. It is possible to do it.
- 2. How to implement it.
- 3. Costs are manageable.
- 4. Impacts are immediately.





Plan Ceibal



1. Data of Deployment in Uruguay

- 380.000 Laptops
- 2068 Schools with Internet
- 1670 Servers
- 3000 AP Internal 800 External
- 140.000 Children need to walk less 300mts
- 18.000 Teachers trained
- 500 Support teachers, 1500 volunteers
- 250 Public places with Internet
- Educational Portal . www.ceibal.edu.uy
- Ceibal TV Channel





Plan Ceibal



2. Who has to Deploy?

- Why the educational system?
 - Is it prepared for this?
- Steering committee with all stakeholders
- Knowledge of technology, logistics and services needed to implement





Plan Ceibal

3. Costs are Manageable

Deployment & Operating Cost 2008-2009



Plan Ceibal

3. Costs are Manageable

Operating Cost 2010

- | | |
|-------------------------------|--------------|
| Connecivity | 4.61 |
| • Spares | 4.95 |
| • Delivery | 0.97 |
| • Operating costs | 9.49 |
| • Spreading and Impact | 1.74 |
| • Total | 21.76 |
-
- **Cost over 4 years $188 + 88 = 276$**
 - **Implementation $< 0.2\%$ PBI, $< 5\%$ Ed**
 - **Operations $< 0.1\%$ PBI,**

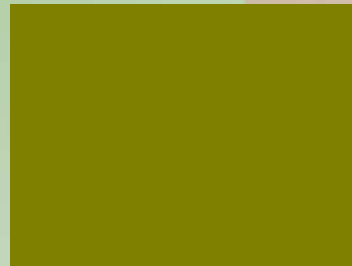




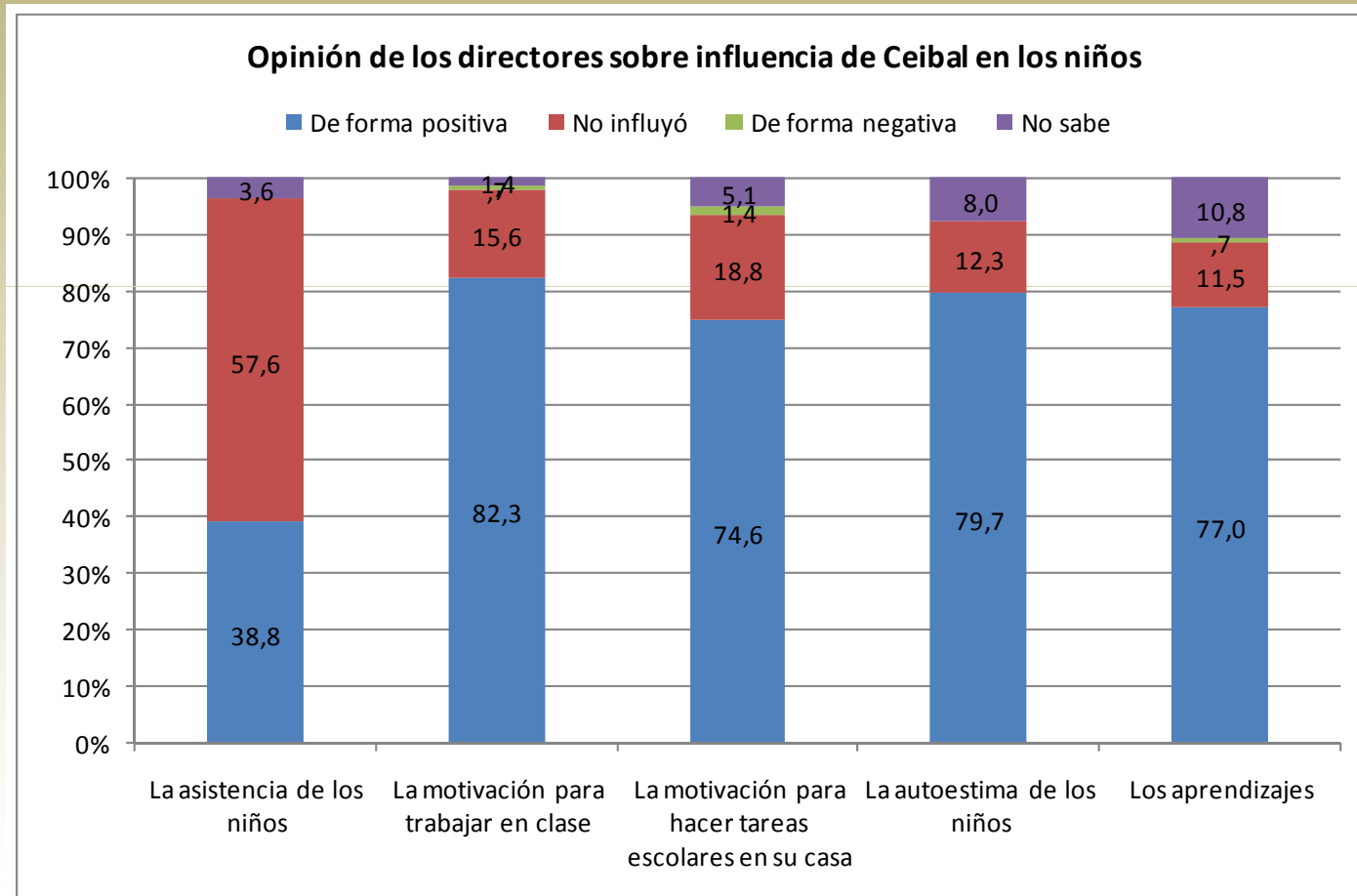
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4 Impact is Immediately

XO is a tool for education and learning in Class
Scratch, Etoys, among others are used for curricula
On line testing for knowledge in 2009

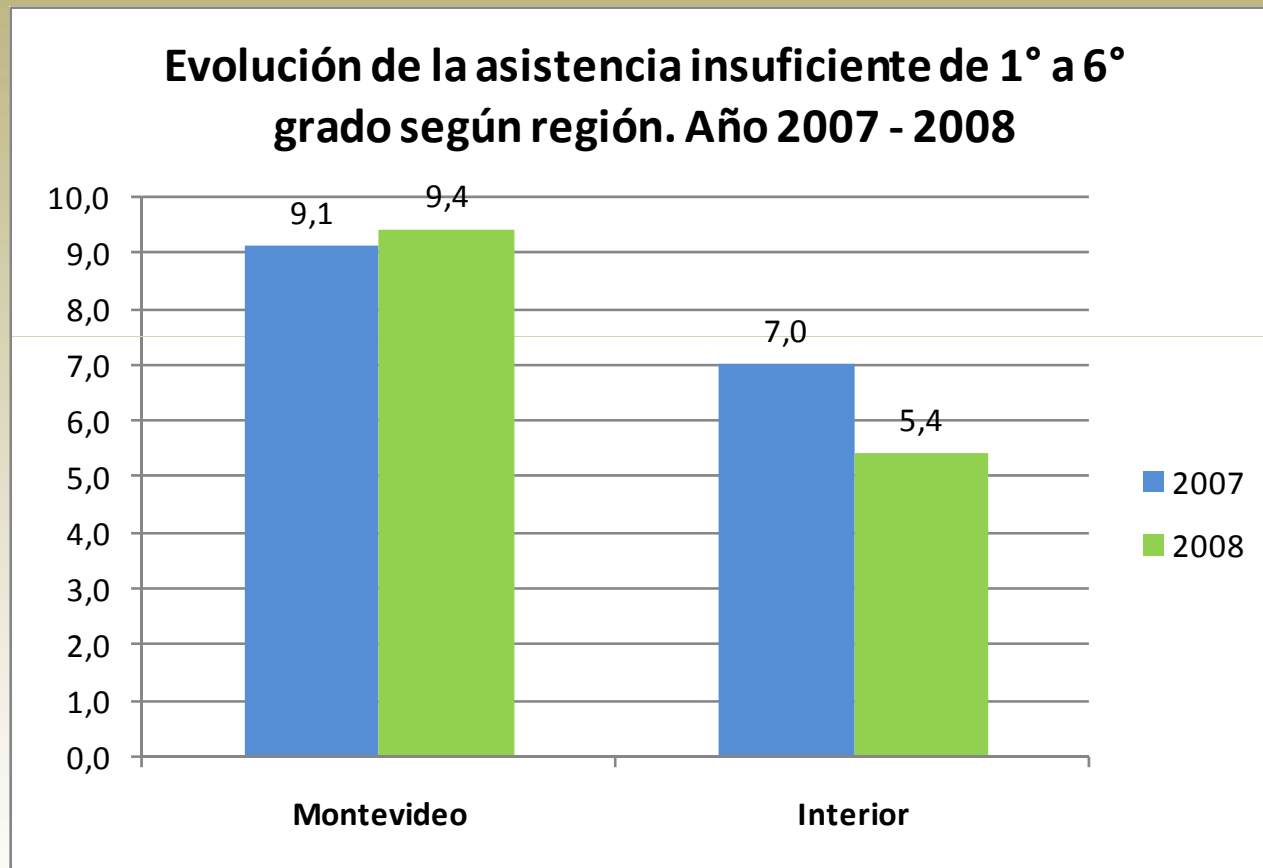


Opinion of Headmasters about Ceibal in 5 crucial Dimensions



Fuente: Área de Evaluación del Plan Ceibal – Actividad de uso de la Xo en muestra nacional 2009

Evolution of insufficient attendance 2007-2008 Montevideo without Ceibal vs Rest of country w/ Ceibal

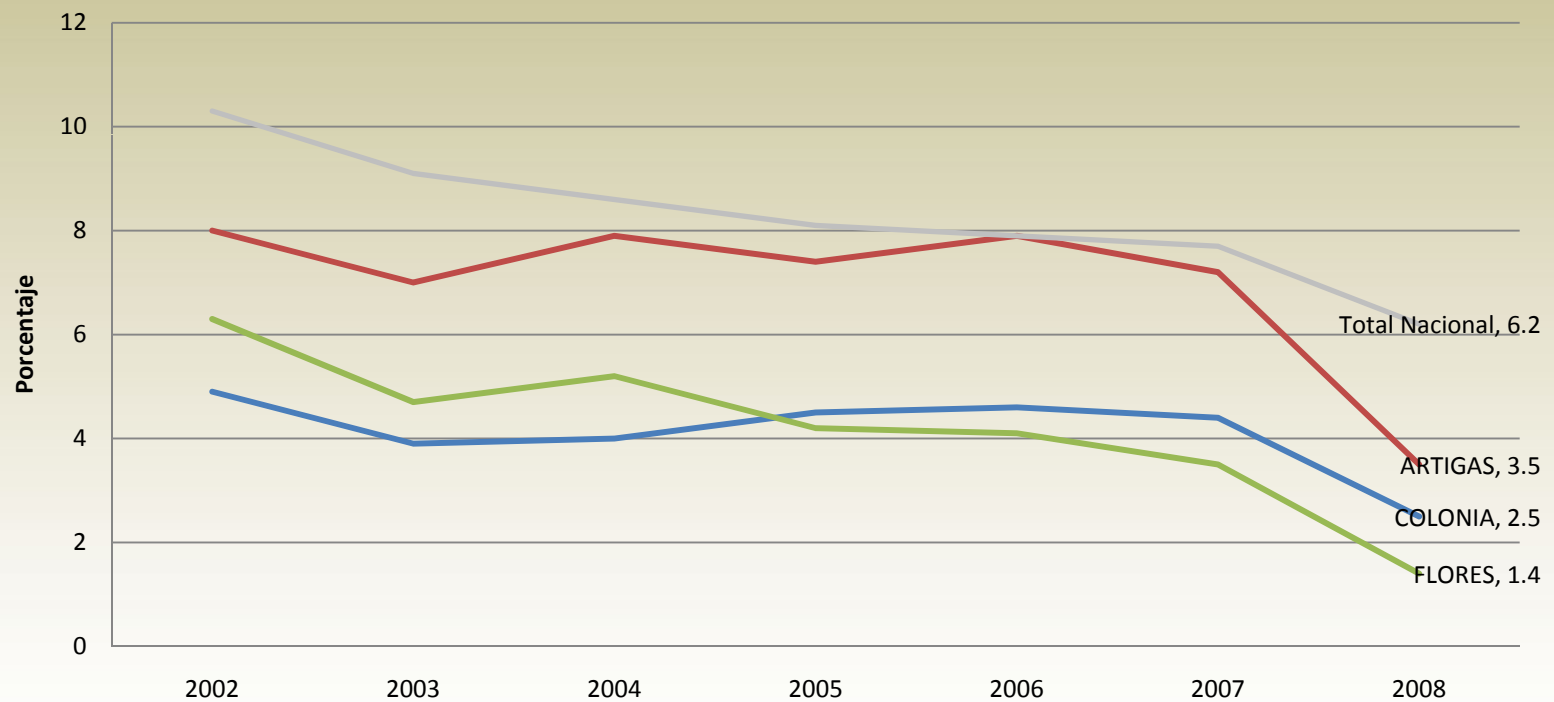


Fuente: Monitor Educativo 2008 de DIEE - ANEP.

School Repetition 1st to 6th grade 2002-2008



Evolución de la repetición en la escuela primaria pública (1º a 6º grado) en departamentos seleccionados.

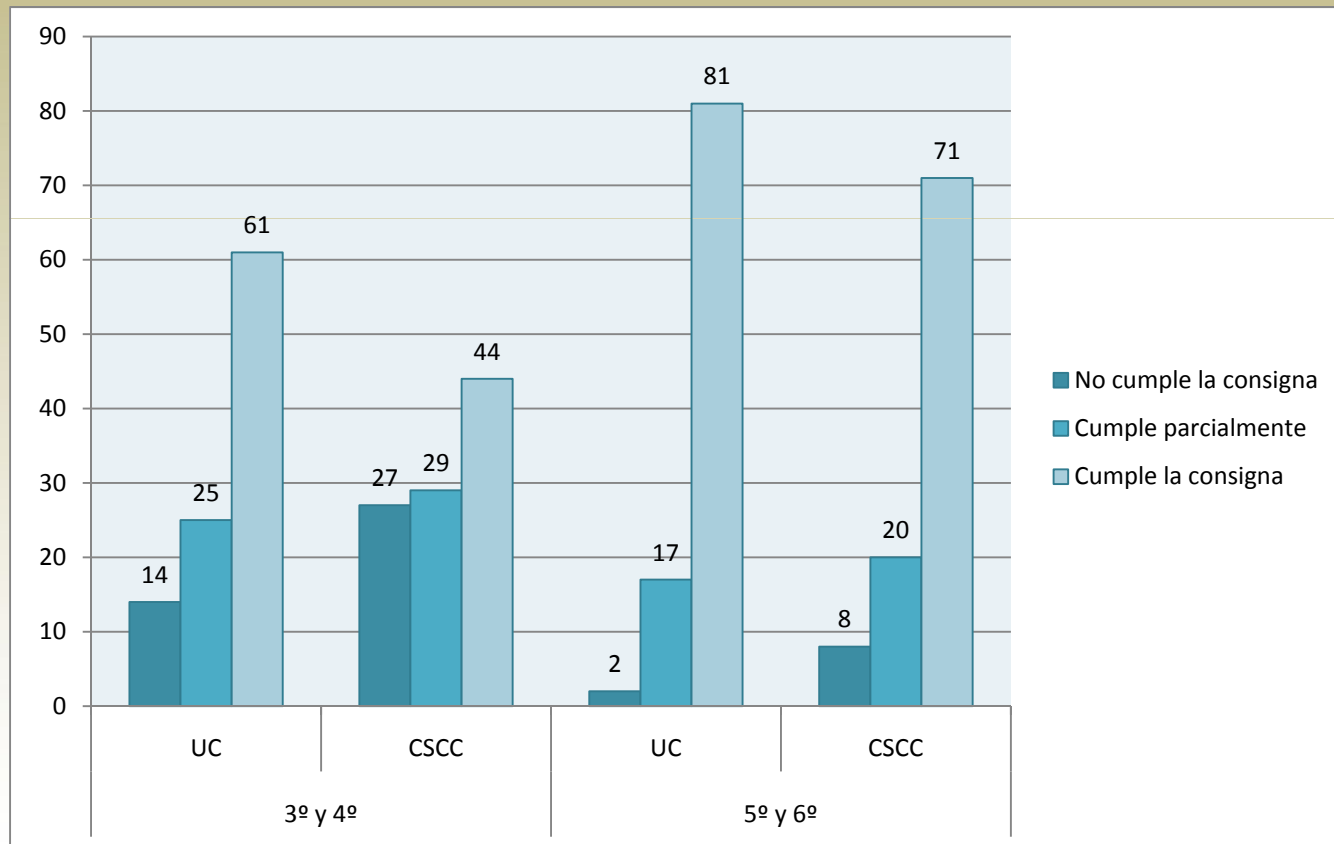


Fuente: Monitor Educativo 2008 de DICE - ANEP.



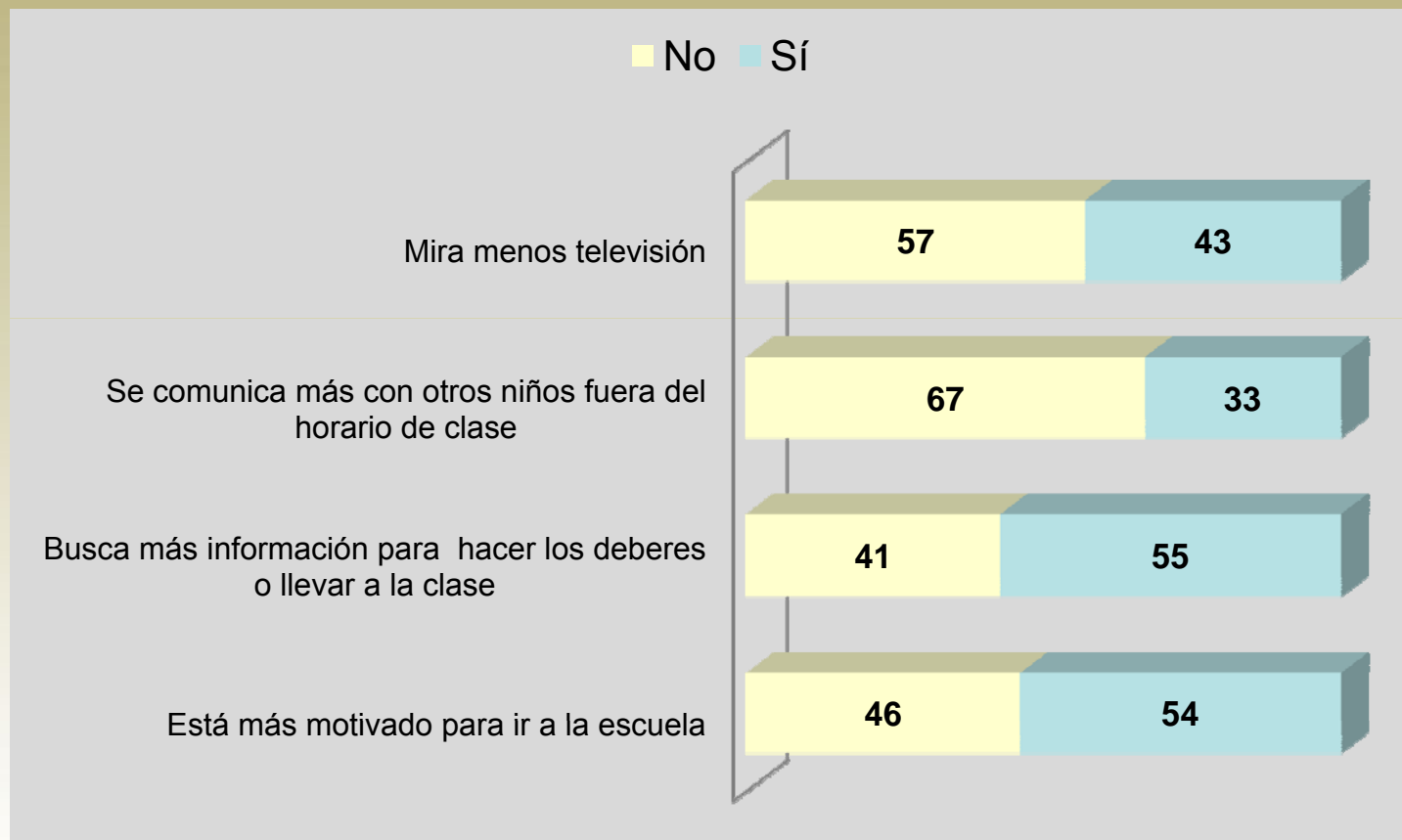
Basic abilities. Achievement according to school year and type of school (Only Rest of Country)

Resultados de la Actividad con la Xo por grado escolar y tipo de escuela (% de niños en cada categoría).



Fuente: Área de Evaluación del Plan Ceibal – Actividad de uso de la Xo en muestra nacional 2009

Perception by mothers of changes in children



Fuente: Coordinación de Evaluación del Plan Ceibal – Estudio Piloto 2008



Plan Ceibal

Other Social Impact

- 220.000 new homes with computers
- 110.000 lowest income families.
- 55% and 47% of homes with computers in Montevideo/Rest of the Country
- Collaboration and new forms of Learning
- Parent Participation
- Public School is the centre of town or neighborhood
- Last but not least
 - **TEACHERS ARE ESSENTIAL**





Technological Impacts

- **First free Wireless Network for Children**
- **Largest Bandwidth penetration in LATM 13.7%**
- **Hardware and Software Engineering development**





Plan Ceibal

Main Conclusions

More Equality, more Participation, More Social Inclusion empowers education and learning

The education system is prepared to change

We have reduced the digital divide, being now the time to reduce the knowledge divide

IT CAN BE DONE

What are other countries waiting??

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Plan Ceibal

Muchas Gracias



