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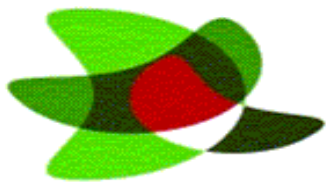
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Teaching science with one laptop per child and per teacher in Uruguay

Mónica Báez Sus
Education Committee – CEIBAL Plan

:: Third International Summer School on Mind, Brain and Education ::
:: Erice, 14 - 16 July 2008 ::



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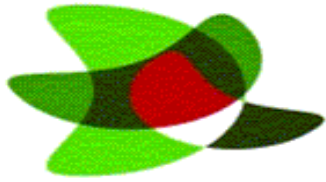
Educational Connectivity of Basic Computer Science for On Line Learning

C onectividad
E ducativa (de)
I nformática
B ásica (para el)
A prendizaje (en)
L ínea

A
I
M

The aim of CEIBAL is to give each child and each teacher at every public primary school in the whole country a laptop and free access to the Internet, before the end of the year 2009, with the purpose of reducing the digital gap and improve the learning and teaching process.

Public primary school in Uruguay involves over 300.000 students, more than 14.000 teachers and about 2.000 schools.



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Uruguay in the world in relation to OLPC

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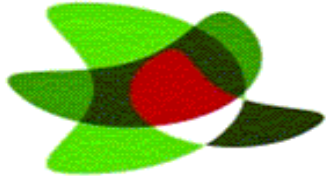


Uruguay is one of the first countries in the world to participate in an initiative of this kind.

Uruguay will also be the first country to accomplish the implementation on the whole national territory.

That is principally due to the strong impulse given by the Presidency of the Republic and the small scale of the country.

In this way we are like a 'worldwide pilot test', concerning educational integration of ICT in primary schools.



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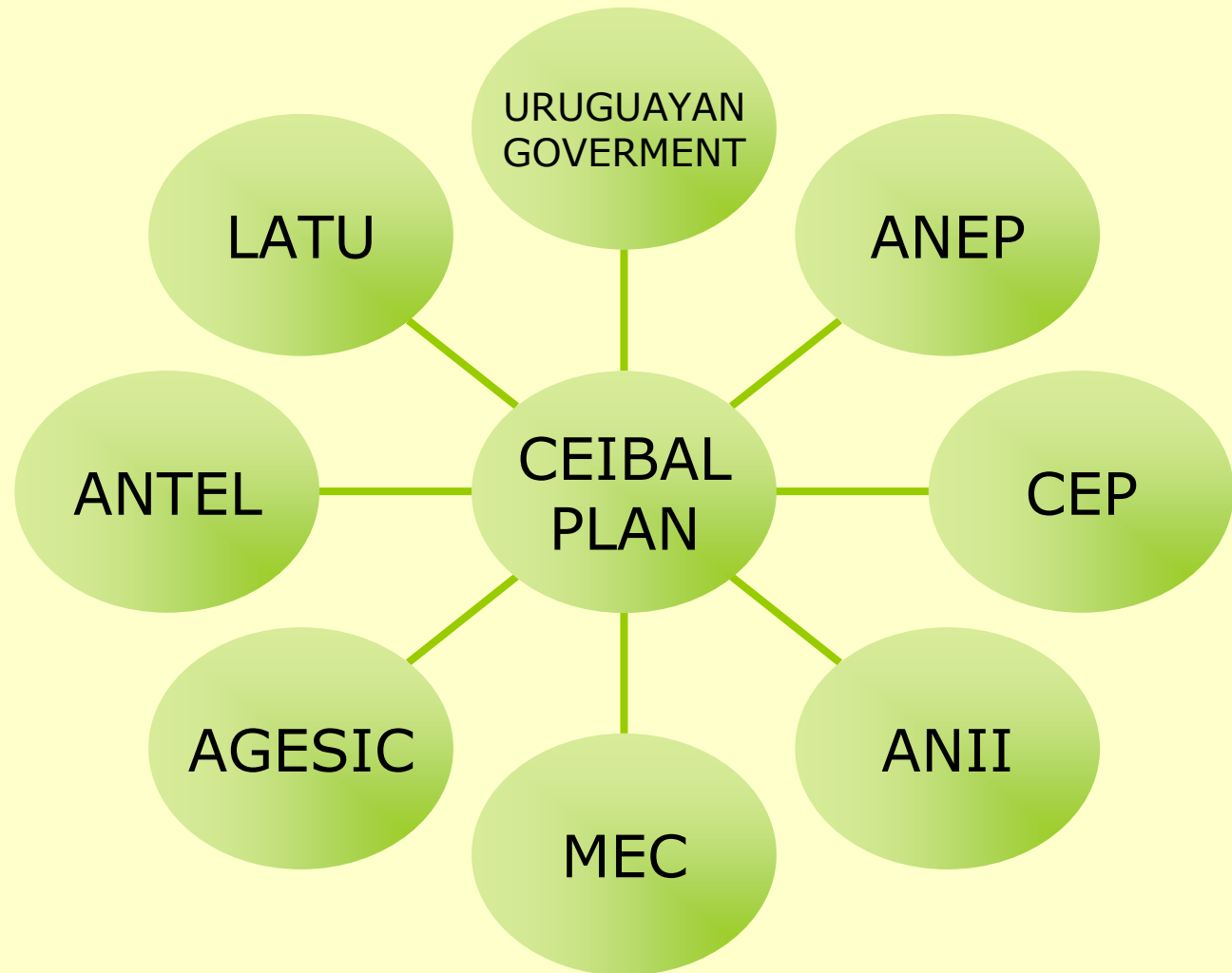
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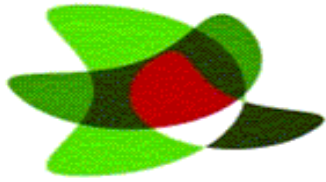
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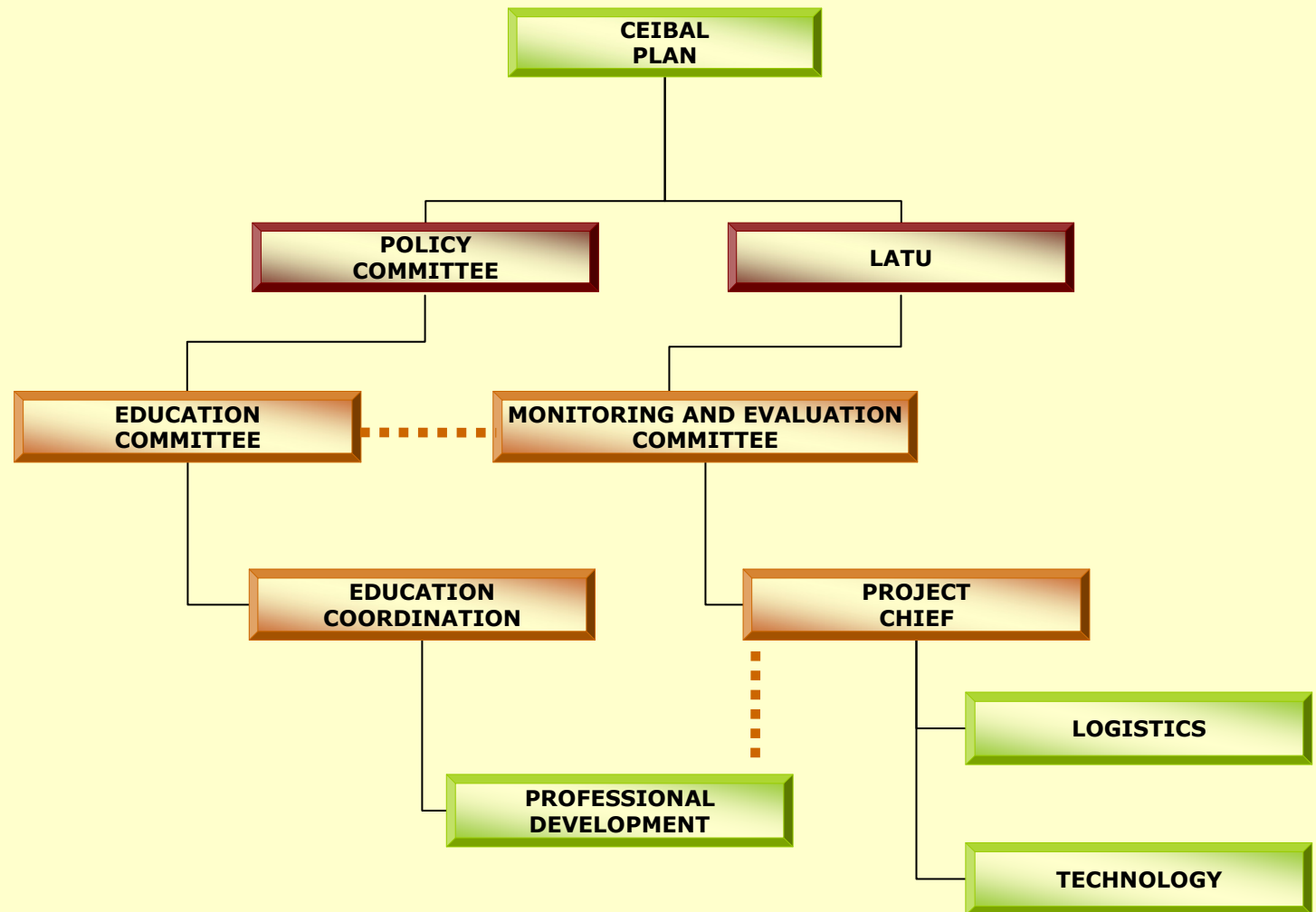
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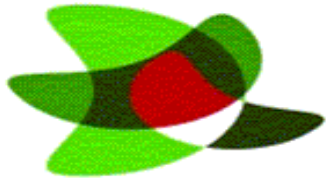
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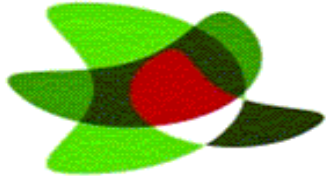
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 to give each child and teacher at public primary schools universal access to laptops and the Internet in order to reduce the digital gap in the country

 promote social justice to establish the conditions for them to have access equality to the information and equality in their possibilities of communication

 encourage the construction of new learning environments and the generation of a favorable context for kids to be able to respond to the demands of society based on information and knowledge

 stimulate the active participation of students, teachers and the whole community by providing them with new media to increase their possibilities of teaching and learning



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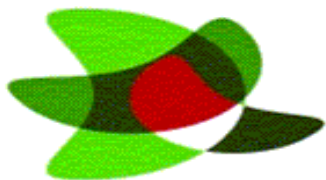
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‘The strategic principles which this project involves are the equity, equality of opportunities for every child and every youngster, democratization of knowledge, also the availability of tools to learn and of a learning, no just related to the education given at School, but to learn themselves how to use a modern technology’

**PhD. Tabaré Vázquez
President of the Republic**



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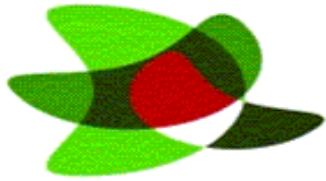
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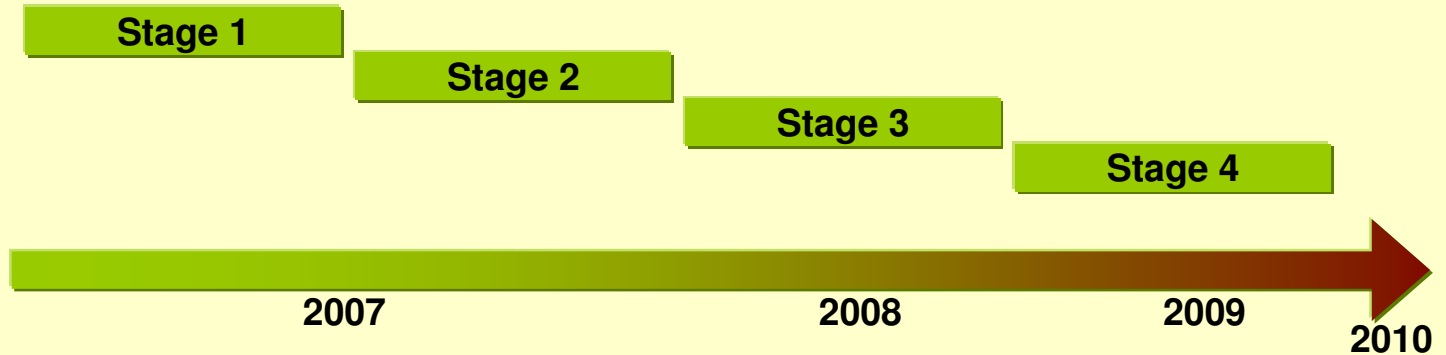
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Stage 1

Cardal's School, Florida (April 2007)

Stage 2

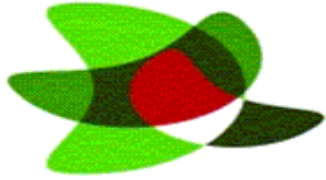
All schools of Florida (October – November 2007)

Stage 3

All schools in the whole country except for the capital city (2008)

Stage 4

Capital city, Montevideo (2009)



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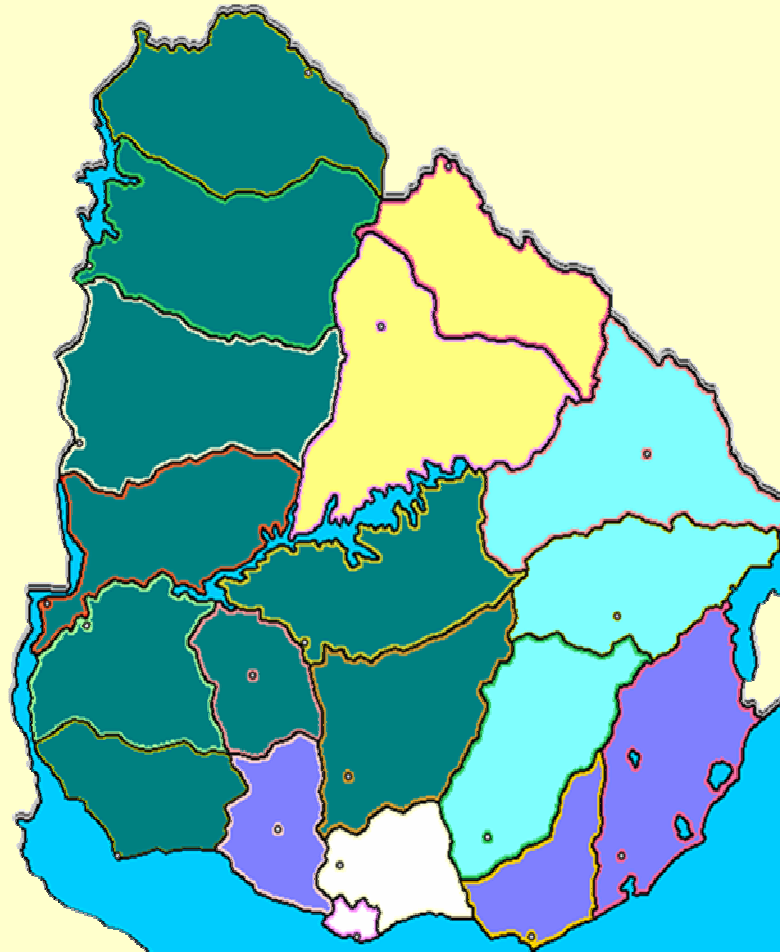
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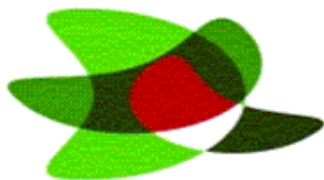
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-  Areas where the XO's were already delivered
-  Delivery being carried out at present
-  Intended delivery: September 2008
-  Intended delivery: October 2008
-  Delivery will be carried out in 2009



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Teachers' Professional Development

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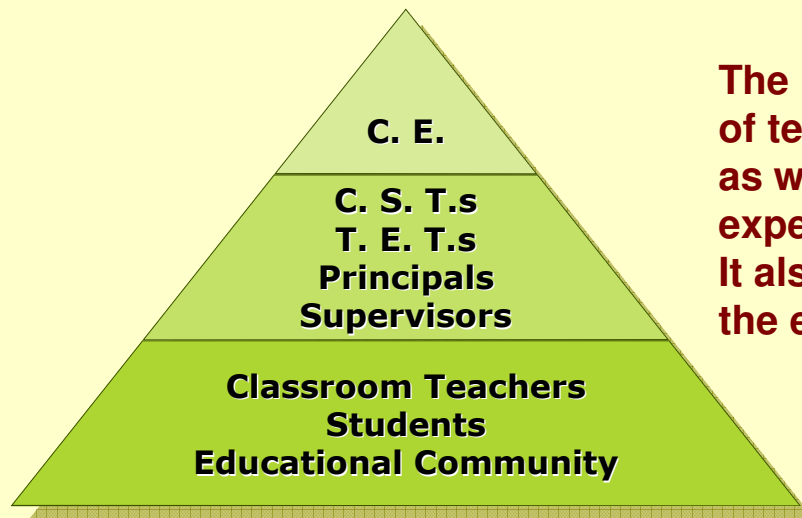
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'Waterfall' Model



The Education Committee is in charge of teachers' professional development as well as monitoring and supporting experiences.

It also promotes the exchange through the educational gate:

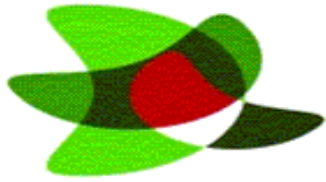
<http://www.ceibal.edu.uy>

Dynamic Contents

- Workshops using XO
- Software for practice activities related to different areas of knowledge
- Individual and group productions

Static Contents

- Presentation of the Plan: main goals, development, achievements up to the present, etc.
- One-to-one Model (Theoretical basis)
- Technical aspects of XOs
- XO Software
- Browse on the Internet
- Collaborative work
- Delivery procedure at schools



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SOME PROJECTS of SCIENCE:

Science Club

The purpose of this project is to participate in a contest about science with other schools.

Green Space (Environmental Education)

This project involves the whole school and the community. All kids, teachers and the neighborhood take part in the development of a 'green space' in which they have an organic orchard, a windmill and a mud oven.

Small kids with big ideas (Environmental Education)

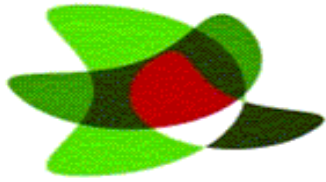
The focus of this project is related to the recycling cycle.

Ants (Natural Science)

Introducing youngest kids into the principles of Biology and Zoology.

Parents School

Workshops with parents about Sexual Education and responsible use of laptops and the Internet.



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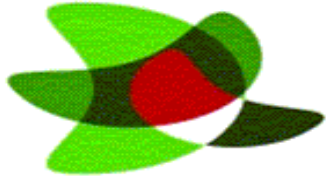
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SOME BENEFITS of the USE of XOs in the CLASSROOM for SCIENCE PROJECTS

- ✿ It allows to take part actively on the construction of knowledge.
- ✿ It enables to satisfy areas of students' personal interest.
- ✿ The class is not limited to a traditional and pre-established learning and teaching format.
- ✿ The student can learn by doing, with no time and space constraints.
- ✿ Students can also teach other classmates while the teacher is focusing their attention on particular students.
- ✿ It allows to study global issues using the local context to understand complex situations.
- ✿ It enables the production of knowledge and not only the consumption of information.
- ✿ It promotes interaction and integration among students.



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MAIN USES of the LAPTOPS in the SCIENCE PROJECTS:

- ✿ Browsing general information on the Internet.
- ✿ Looking for specific information on the Internet.
- ✿ Taking photos and making videos with the camera.
- ✿ Downloading and uploading data and images.
- ✿ Diffusing their discoveries by means of chats, blogs, websites, etc.