

Where are we from?

Uruguay

Population: 3.300.000

GDP per capita: USD 14.500

Long tradition of public education



Origins



- Social Inclusion
- Equality of Opportunities
- Teaching and Learning

Plan Ceibal is not a an ICT Program or Laptops



Law of Creation of Centro Ceibal 18.640

Promote, coordinate and develop plans and programs of support to educational policies for children and adolescents designed by the relevant institutions Promote, coordinate and develop plans and programs for educational use of ICT. Contribute to the enforcement of the right to education and social inclusion through actions that allow equal acces to knowledge.

Board of Directors Centro Ceibal

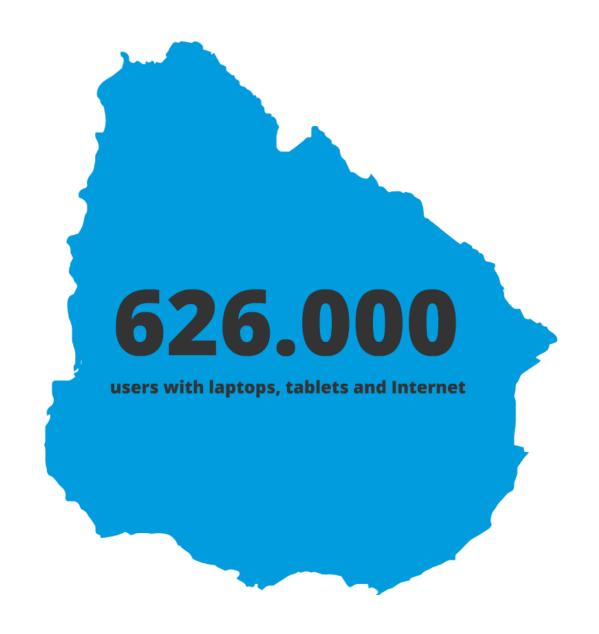
MEC - Ministry of Education-Director of Education

ANEP - Director

MEF - Delegate of the Minister

Presidency - Delegate

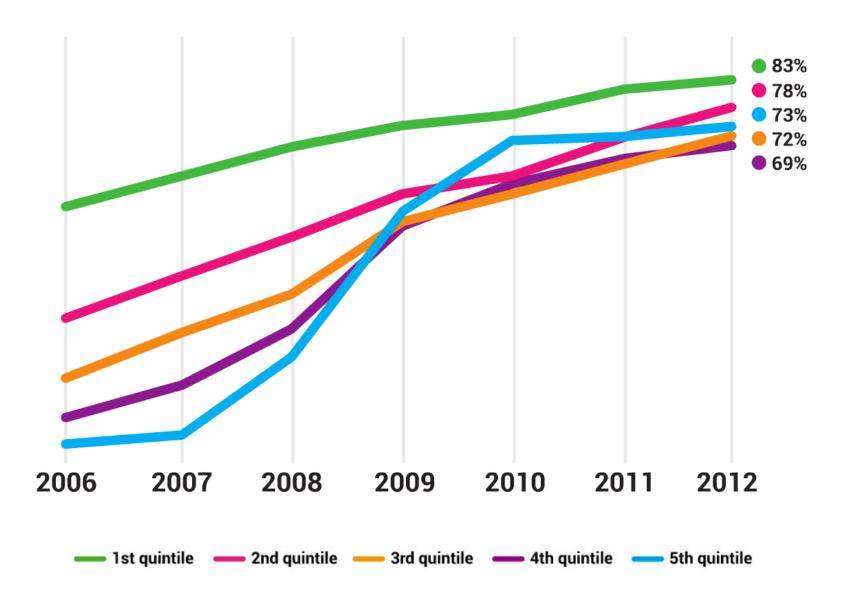




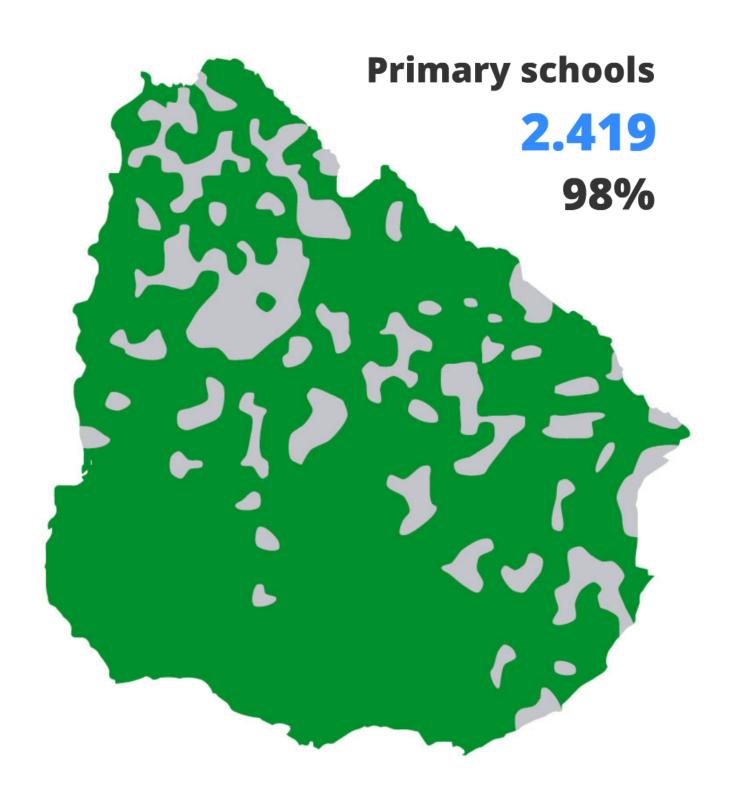




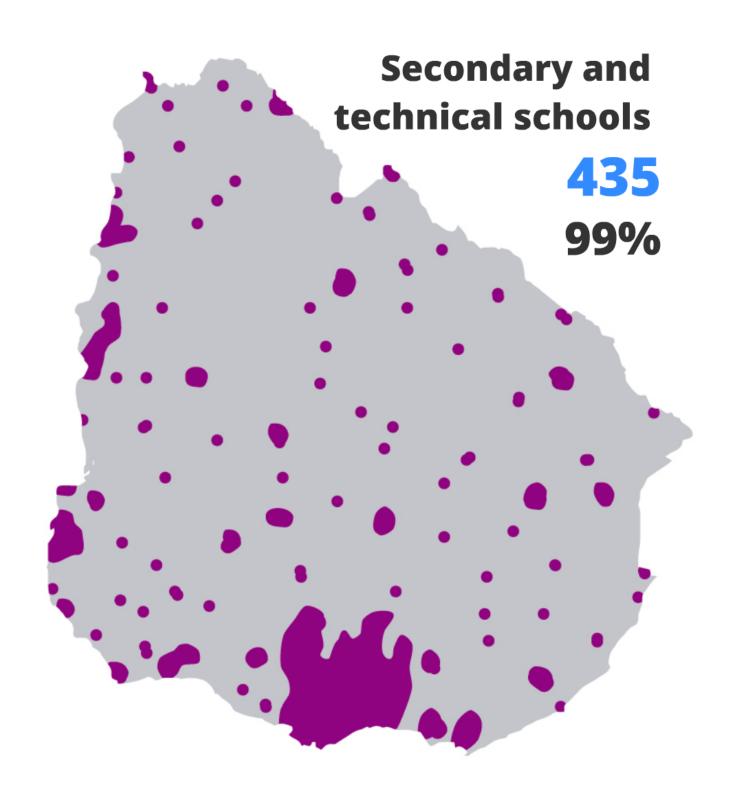
Acces to a PC by fiths of income by person



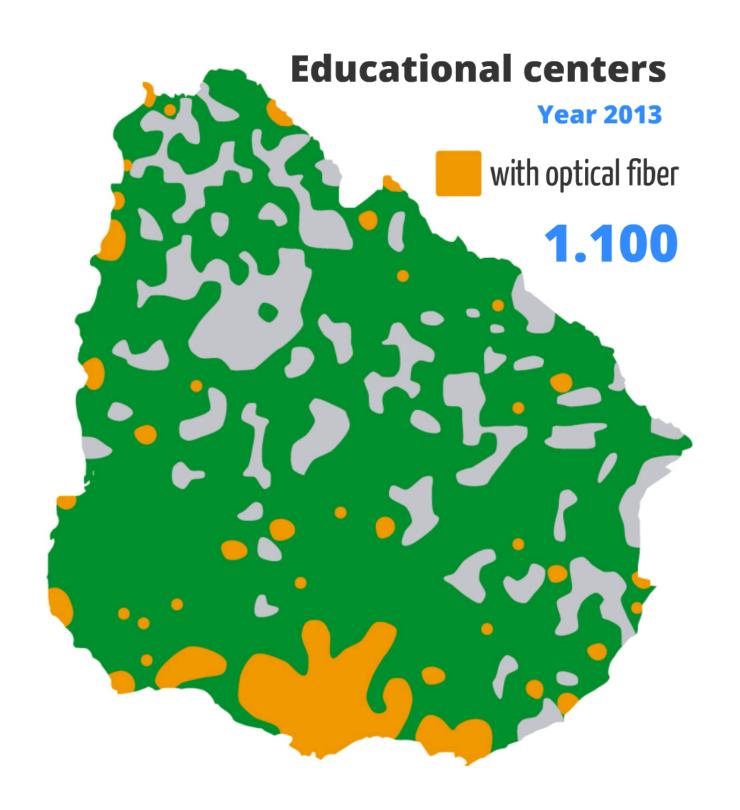




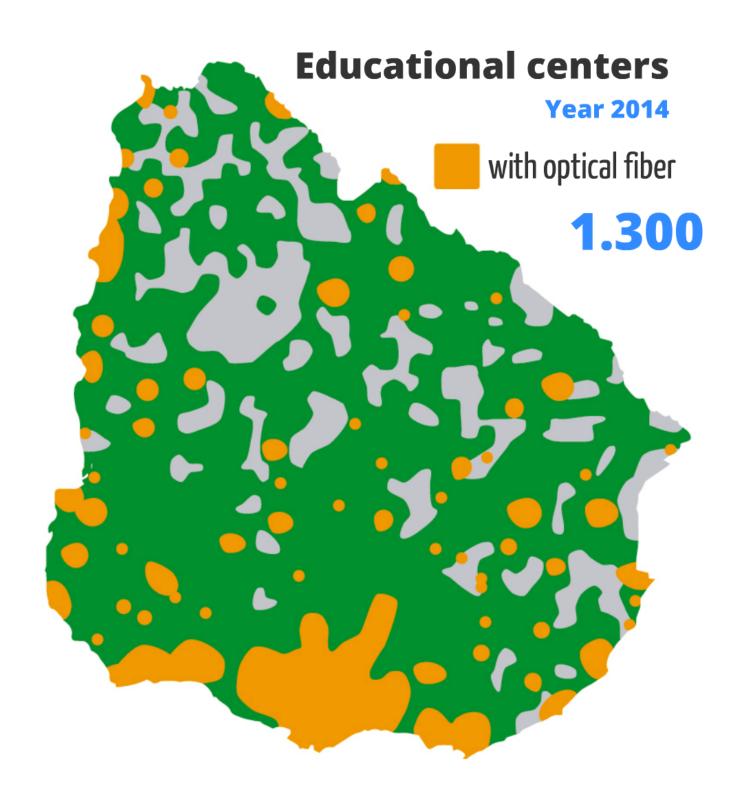












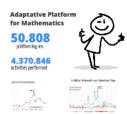




Platforms and Challenges

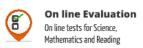














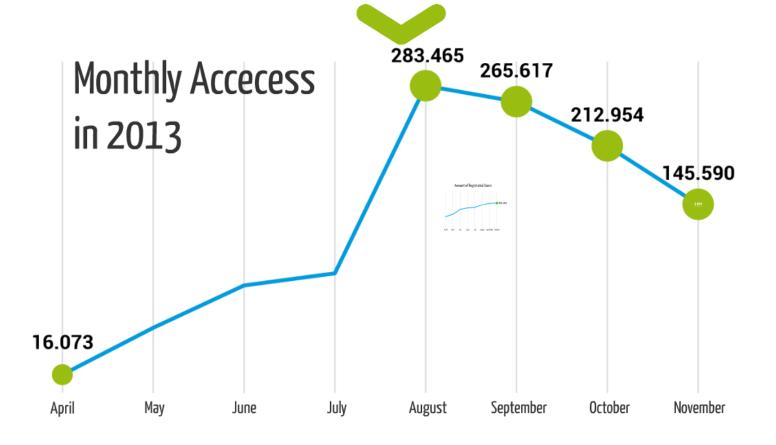
2014: 2.000 groups 2015: All students from 4th to 6th grade



Available Educational Resources

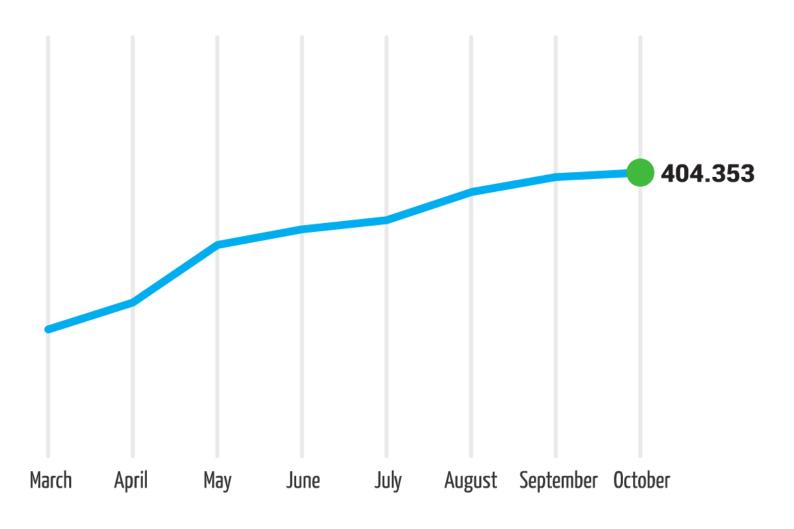
- · More than 3.000 learning objects created by
- uruguayan teachers
- Khan Academy in spanish
- Maths Videogames
- Chess Videogames
- More than 1.200.000 Visits to Ceibal Web Page







Amount of Registrated Users





Adaptative Platform for Mathematics

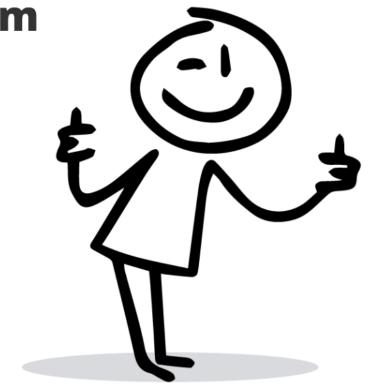
50.808 platform log-ins

4.370.846 activities performed

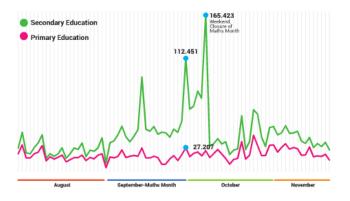


Activities Performed Weekly



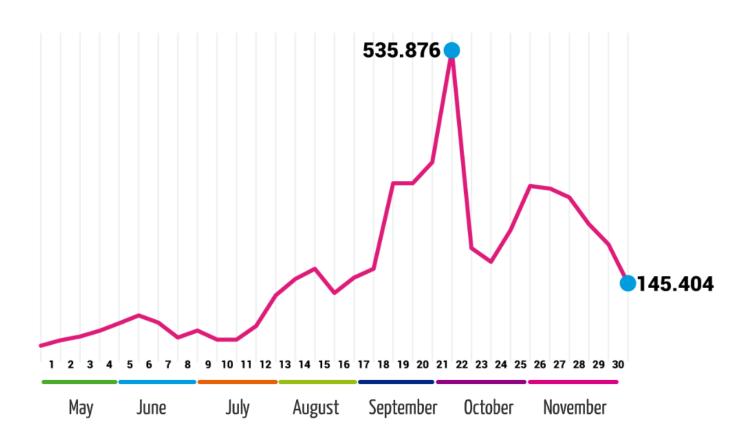


Activities Performed in each Educational Stage



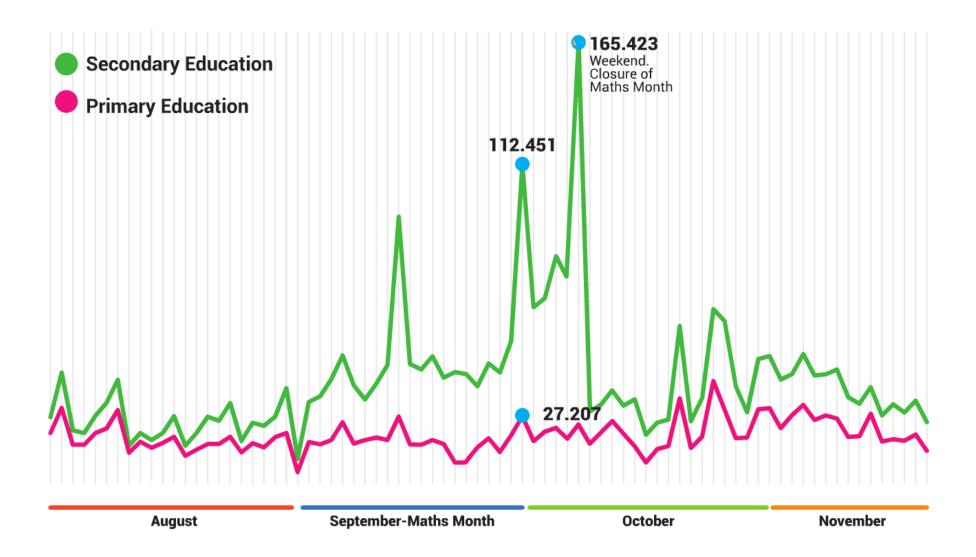


Activities Performed Weekly





Activities Performed in each Educational Stage







Reading

Purchase of digital books Purchase of reading books





More than 500 digital books available



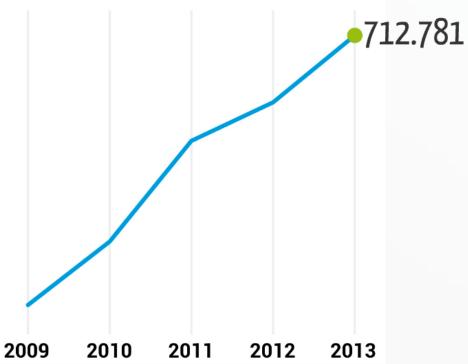


On line Evaluation

On line tests for Science, Mathematics and Reading







185.000

students from 3rd to 6th grade participated



Available Educational Resources



- More than 3.000 learning objects created by uruguayan teachers
- Khan Academy in spanish
- Maths Videogames
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Logic and Progamming

Robotics Kits for Students Scratch Activities MOOC Programming Course (October 2013)





Teaching English

Partnership with The British Council Classes through Videoconference (Remote Teachers working with Local Classroom Teachers)

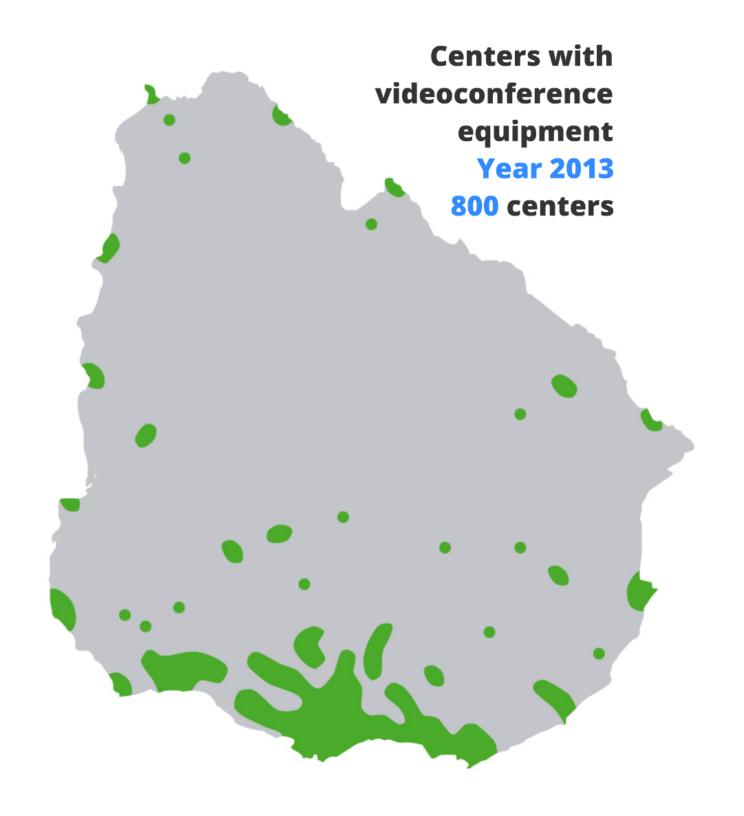
2012: Pilot (50 groups)

2013: 1.000 groups at 198 schools

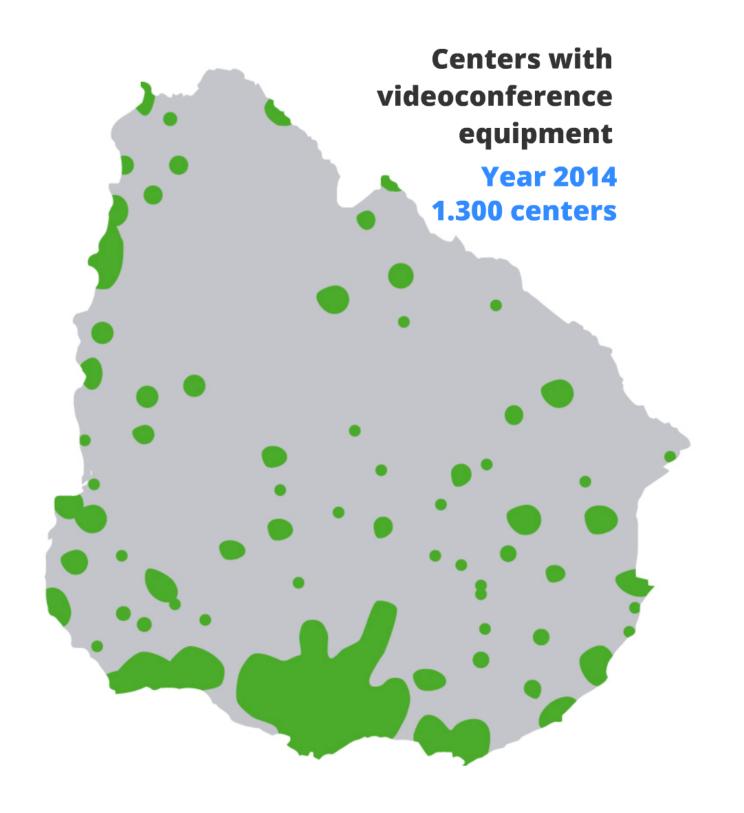
2014: 2.000 groups

2015: All students from 4th to 6th grade











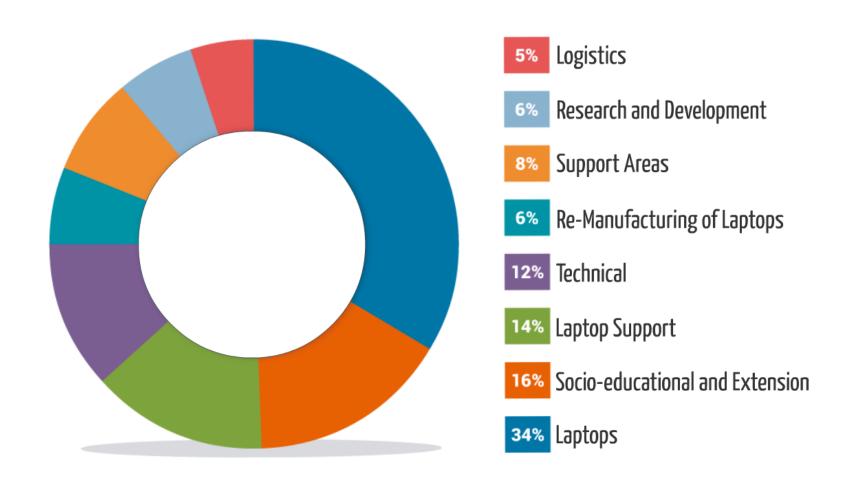


Total Cost in 4 years

- \$u 2.140 per student per year (includes laptop change every 4 years). \$u 170 per month.
- Less than 5% of the budget of Primary and Secondary Education.
- 2011-2015 Year Budget less than 0.12% of GDP.



Costs by Area in 2012







Foreign Consultancies and Cooperation



Region: Karabakh

Implemented by: Eurnekian Group Project: NUR From November 9th to December 26th - 2010



Country: Paraguay

Implemented by: Paraguay Educa Foundation Project: Paraguay Educa From September 2nd to December 2nd, 2012



Country: Ecuador

Implemented by: SITEC (Ministry of Education) Consultancy for the Project "Mi Compu" at the Ministry of Education of Ecuador. From March to June 2012



Country: Argentina

Implemented by: Local Government Project: Clickear From August 5 to 9th , 2013



Country: Colombia

Implementd by: Alcaldia del Municipio de Itagüí From October 22nd to 26th, 2012



Country: Brazil

Bi-national Seminar Brazil-Uruguay on Technological Modenization of Education. From August 29th to 30th, 2013



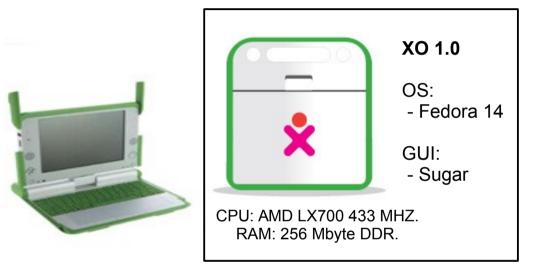


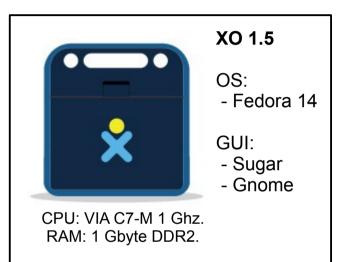
- Transformation of Privileges into Rights
- Personalization of Education through Collaborative Work
- Individualized Learning through Technology
- New Role for the Teacher



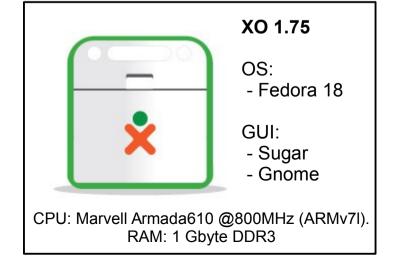


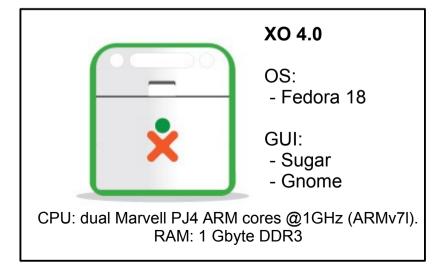
End user devices – OLPC laptops







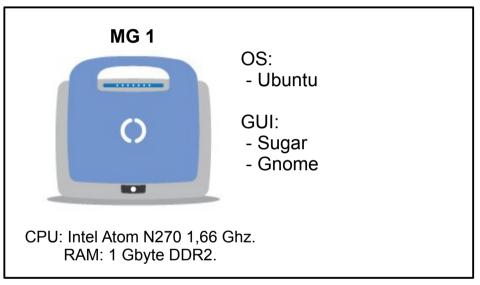


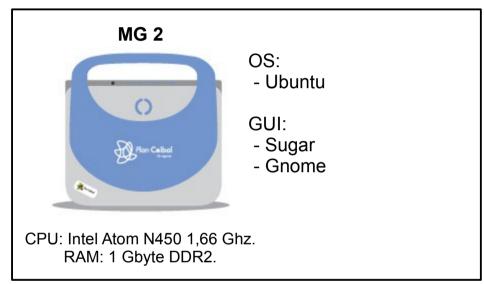


802.11g

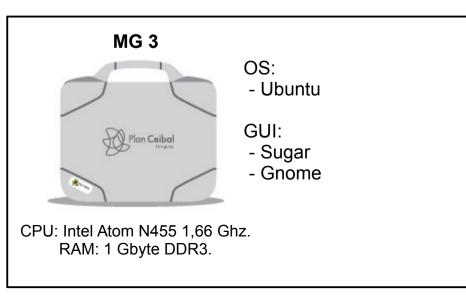


End user devices – JP Couto laptops









802.11n still single radio



End user devices – OLPC tablet



802.11n still single radio

What's next?

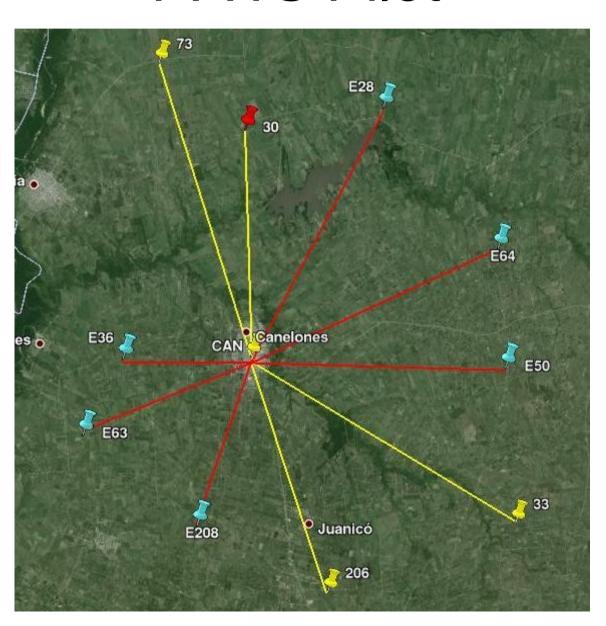


TVWS Pilot

- DTTV is being deployed in Uruguay
- There is not going to be many TV Broadcasters
- There will be numerous channels avaiable
- A convenient way of providing Internet in rural schools with EDGE or 3G access



TVWS Pilot





TVWS Pilot - Details

- 6Harmonics equipment
- 3 BS (GWS 3000) mounted in a cellular base station tower 76 meters high
- 10 CPEs (GWS3002) located at schools
- 5 MHz channels from 20 to 24 UHF (513.25 MHz 531.25 MHz)
- 7 dB Rx antennas, 3 meters high
- 11 dB Tx antennas, 76 meters high



THANK YOU

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