

one
laptop
per
child

1



What kind of things are worthwhile learning?

Claudia Urrea, PhD
Community Summit 2011
San Francisco, CA
October 23, 2011





Learning (Constructionism)

- Knowledge is constructed (Piaget / Paper)
- Powerful ideas vs. Facts
- Interaction/Collaboration with peers
- Formal, Informal and Non-formal spaces
- Tools (Technological fluency)
 - Low floor, High ceiling
 - Wide walls

Learning...

Technological Fluency

Creativity

Problem solving

Debugging

Think about

thinking

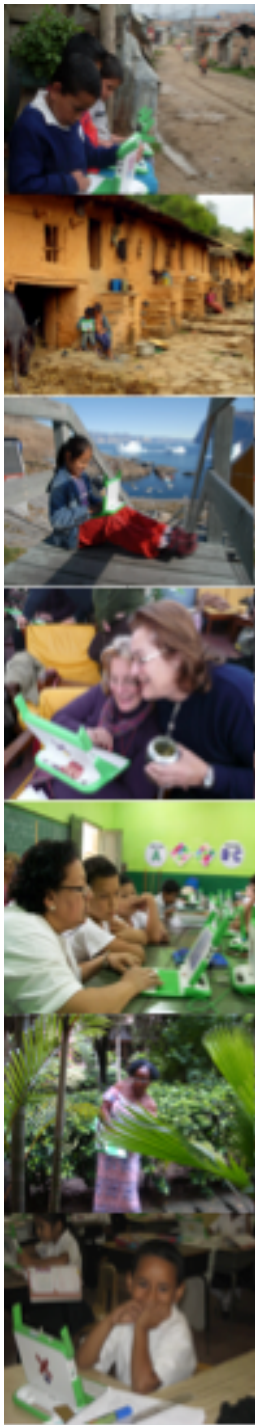
Problem solving



What we have done

- Build capacity of learning teams
- Develop regional communities
 - Central America (Costa Rica, Nicaragua, El Salvador, Honduras, and Guatemala)
- Develop a number of strategies to make learning visible





Community building

Spanish Chat

El equipo de aprendizaje de OLPC ofrece un chat en Español para intercambiar experiencias de aprendizaje desde los diferentes proyectos. En esta página se registra información acerca de los chats en Español durante los meses de Mayo a Diciembre de 2010, incluyendo una transcripción de los mismos. Para los chats de 2011 entrar a [Chat en Espanol 2011](#). También existe [un foro en espanol](#) que sirve para continuar discutiendo temas de interes que no se concluyen durante el chat, o para aquellos que se pierden el Chat de la semana puedan participar igual.

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Innovation in Evaluation

- Micro level → Student/Teacher/
(Parents)
- Mezzo level → Teacher/Principals/
Stakeholders
- Macro level → Nation/Across
nations



Meta data



 Atrás



Turtle Art Activity

Segundos atrás



Tipo: application/x-turtle-art

Fecha: 20/10/11

Tamaño: 377 B

Descripción:

Etiquetas:

Activity Data:

Iteracciones: 1

Bloques de la Tortuga: empezar adelante derecha fijar xy

Participantes:

http://wiki.laptop.org/go/Datos_diario



Micro level: Student

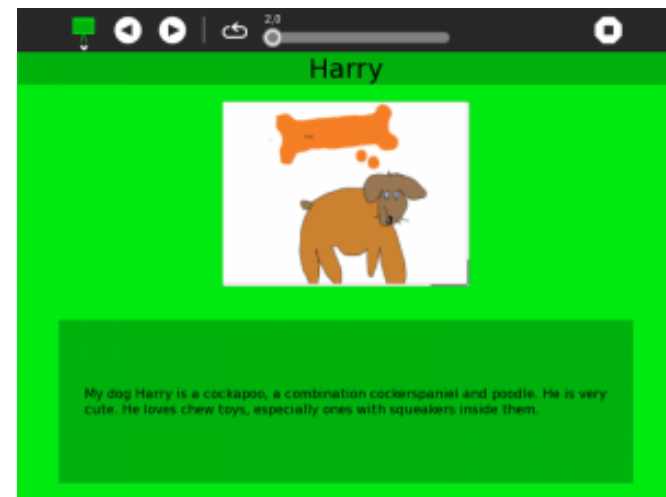
To help students and teachers (parents) understand emerging learning and progress at any given time:

- Personal
- Changes student/teacher dynamic
- Reflection

Micro level: Journal and Portfolio

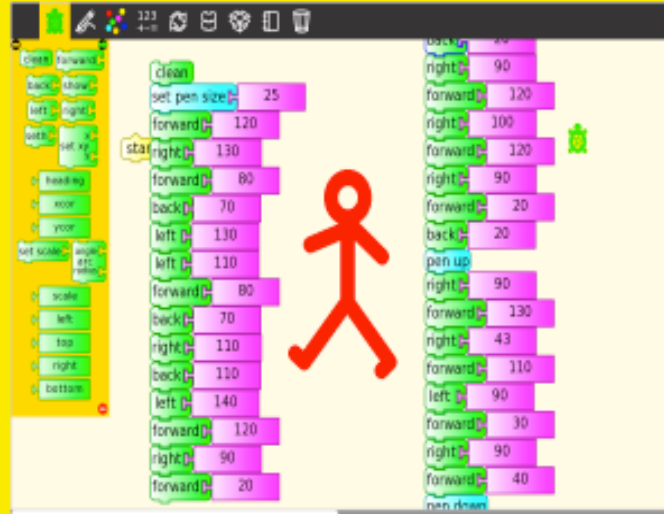


What	Who	When
The Tortoise and the Hare	✕ ✕ ✕	2 minutes ago
Russian Tortoise - Wikipedia, ...edia	✕ ✕ ✕	5 minutes ago
A photo of my cat	✕ ✕ ✕	yesterday
This fantastic story about ... wrote	✕ ✕ ✕ ✕	yesterday
Image clipping	✕ ✕ ✕	yesterday
Our school	✕ ✕ ✕	2 days ago
A movie of my family	✕ ✕ ✕	3 days ago
Uruguay - Wikipedia, the free ...pedia	✕ ✕ ✕	1 week ago
History of Uruguay	✕ ✕ ✕	1 week ago
My homework assignment	✕ ✕ ✕	1 week ago



Portfolio: Student, Nigeria

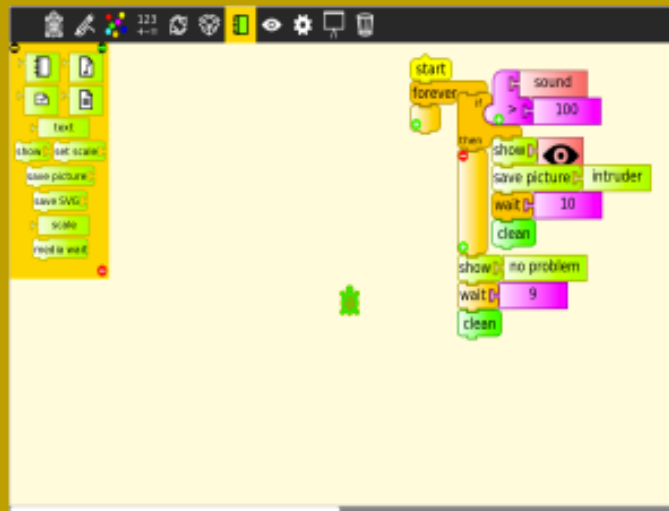
A Human



Wow on this great day, I made a human being using the turtle art activity

Portfolio: Teacher in Nigeria

Turtle Art Activity



security alert using turtle arts. learned more things in turtle arts and got more idea about using the sensor blocks in turtle arts. this can help our kids to develop their reasoning level and creativity.

Portafolio: Teacher in Nigeria

Wild animals



A memorize activity, wild animals. This activity matches pictures of animals with their names. Children can use this to identify animals and names. The name of each animal is pronounced as the picture is clicked.



Mezzo level: Classroom/School

To understand learning in the classroom/school, as well as development of the program:

- Immediate results
- Informs teacher about students' learning

Mezzo level: Real time strategies

“Hacia un sistema de evaluación de aprendizajes en línea”
Andres Peri
ANEP CODICEN (Uruguay)

Usuario: Nicolas Alonso

MENU PRINCIPAL

Mis Datos

Mi Grupo

Pruebas

Resultados

Contactenos

Encuesta sobre la Evaluación en Línea

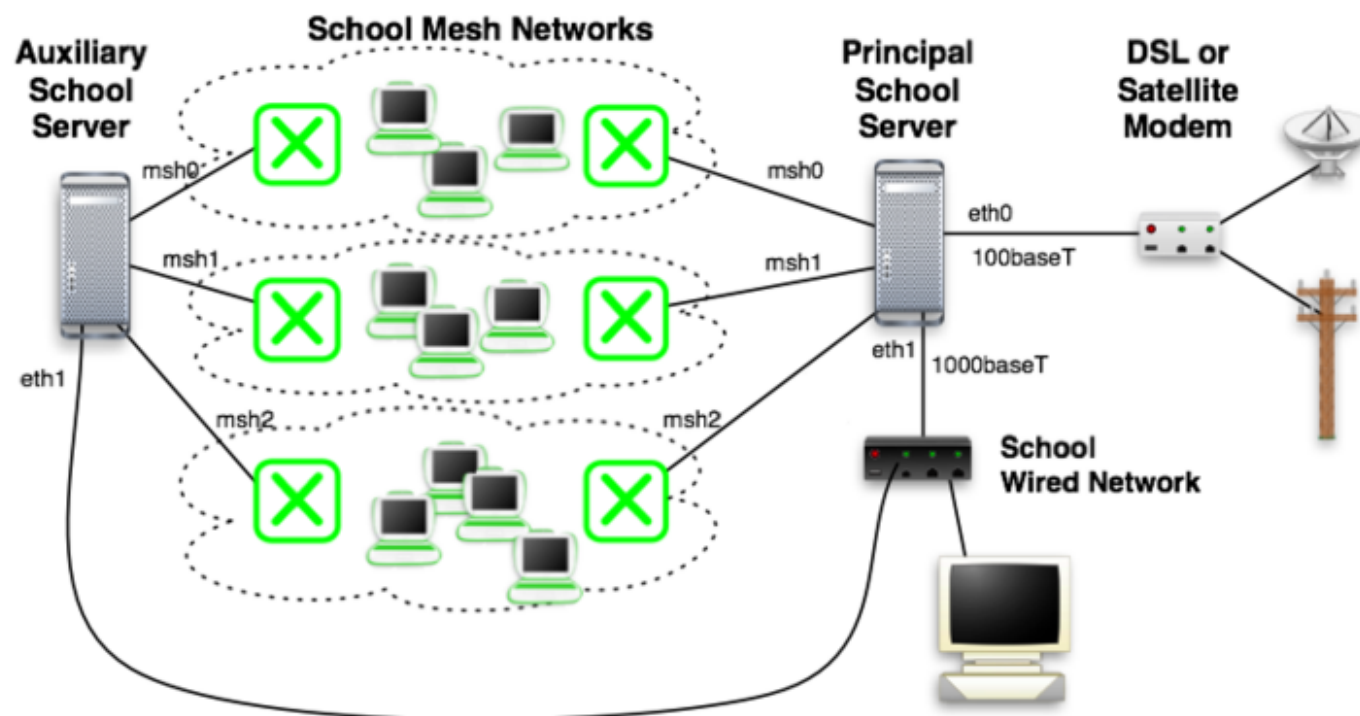
ANÁLISIS DE RESULTADOS INDIVIDUALES

Centro: Escuela Nº 598
Grupo: 2º B
Departamento: MONTEVIDEO
Asignatura: Matemáticas
Prueba: 2º Matemáticas
Contenido: Todos

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	
LUCÍA BELEN RIVERA LÓPEZ	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	13
BELEN PICCOLO ALFARO	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	14
ANA PAULA NUSSPAUMER AGUI	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10
LUCÍA ANTONELLA GROSSO MELO	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	13
AGUSTINA DAVSON BURGUEZ	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	7
NICOLE SELENA CORTI RODRIGUEZ	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	11
SIMENA RODRIGUEZ ABBU	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	15
SOFÍA PELOSI FAGOAGA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	7
AGUSTINA COELHO DE LOS S	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	17
DAIANA SUSANITA ABAUJO FERNÁNDEZ	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	13
VIRGINIA CAICOV SCLAVI IRIGOYEN	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	12
PAMELA TAMARA ITORRIBURO VIEITE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	8
VICTORIA BELEN VINCON CARTIER	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	14
SELENA MARTINEA MARTÍN	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	6
FEDERICO RICARDI RICHEL	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	18
MATÍAS LÓPEZ PEDRONTE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	8
NICOLÁS MANUEL MOURO SOSA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	21
ADRIANO MAIO LONGO	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10
CAMILO OTTONELLO VIERA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	19
IVÁN LÓPEZ SALA VERRY	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10
FEDERICO MATTONI GONZÁLE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	14
NICOLÁS AGUSTÍ MONGELOS TECCO	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	9
ARISTÓTELES GAS TZITZIOS CAMAÑO	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	6
AGUSTÍN NICOLÁS PÉREZ FERRARI	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	10
	21	8	17	7	13	17	8	17	12	9	14	13	1	7	9	16	11	13	10	6	4	11	8	12		

2009

Server infrastructure



Teacher's experience



- Content
 - Lessons
 - Books
 - Media archives
- Backup & restore
- Network
- Identity & Security

Macro Level: Nation/Across Nations

To understand impact at the level of program (nation, state, community) and across nations:

- Understand differences and similarities
- Learn about emergent developments
- Allows innovation at the mid-scale with projections at scale



Innovations at middle scale

1. Paraguay Educa in Paraguay (9k)
 - 9,000 in the city of Caacupé
2. Edücate program in Vichada Colombia:
 - 700 children in 11 schools



Macro Level: Scratch, as example

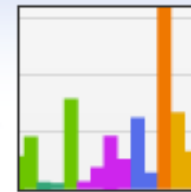
“Logo has a nice grammar, but no literature.”

Marvin Minsky 1986



The image shows a screenshot of the Scratch website interface. At the top, there's a navigation bar with links: home, projects, galleries, support, forums, about, my stuff, and Language. Below this is a welcome message for 'callaurrea' and a search bar. A message count indicates 'You have 20 messages'. The main content area is divided into sections: 'Newest Projects' with three project thumbnails (a world map, a moon, and a shooting game), 'Featured Projects' with three project thumbnails (Mountain Dogs, Geyser simulation, and Robotcou Stage 1), and 'My Friends' Latest Projects'. Each section has a 'See more' link. To the right of the 'Newest Projects' section, there are three additional boxes: 'Scratch Day' (a worldwide network of gatherings), 'Scratcher Interviews' (want to talk about your experiences with Scratch?), and 'ScratchEd' (do you help people learn Scratch? Join ScratchEd, our new online community for educators.). Each of these boxes also has a 'Find out more' or 'Learn more' link.

Community Stats

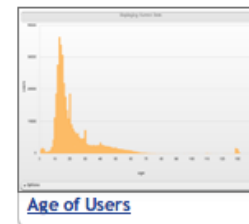
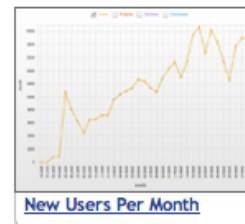
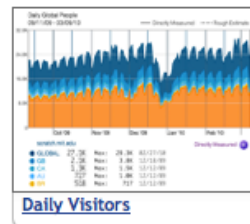


795,147 registered members,
229,870 project creators,
1,781,747 projects.
That's a lot of

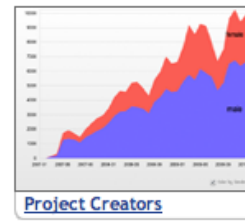
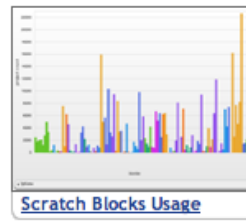
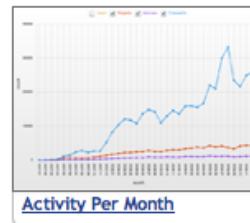
Scratch-ing!

Scratch: statistics

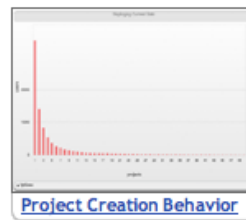
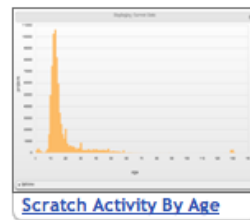
Who We Are



What We Do

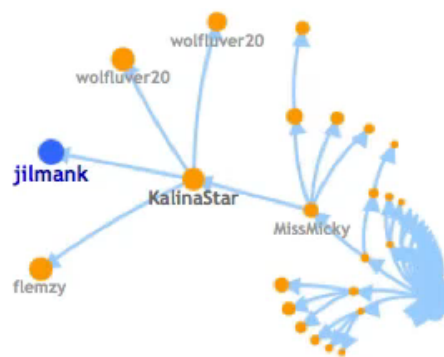


Who Makes What



Visualization techniques

Remix Visualization



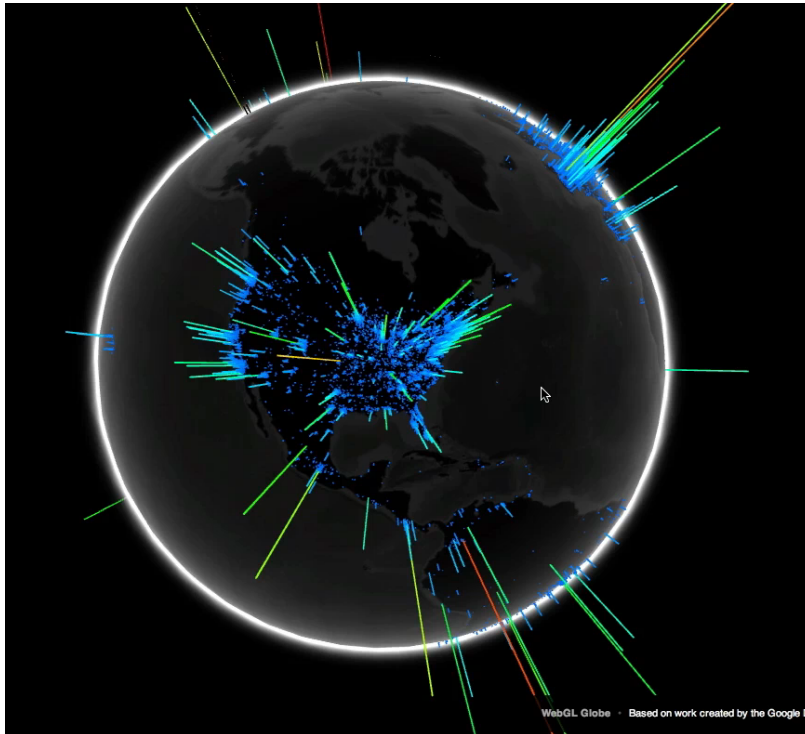
Jilmank Tetris!



jilmank

Based on [KalinaStar's project](#)

Visualization techniques



The length of the bars indicate the number of projects from that location.

The ip-address to latitude/longitude database is not super accurate.

This was inspired by a Google visualization of search volume in different languages from around the world.



One possible



Perfil

Buscar usuario

Dayana Karina Arguello Rodriguez

Editar perfil

Fecha de nacimiento
Septiembre 25 de 1997

Colegio
Instituto El Gran Saber

Grado
8-1

Correo electrónico
dayanaarguello@hotmail.com

Grupos o asociaciones a los que perteneces

Hobbies
pibull

Deportes
baloncesto

Mis productos mas recientes

☆  Registering	1 hora, 56 minutos ...	➔
☆  Resource one	3 semanas atrás	➔
☆  My first entry on Wiki	3 semanas atrás	➔
☆  Me and my friend	3 semanas atrás	➔
☆  My classroom	4 semanas, 1 día atr...	➔

Estadísticas

Recursos creados : 5638
Recursos visitados : 2146
Cursos activos : 9
Cursos finalizados : 0
Preguntas formuladas : 0
Preguntas resueltas : 0

Portafolio


es loque le dan
en cl...
29 Visitas

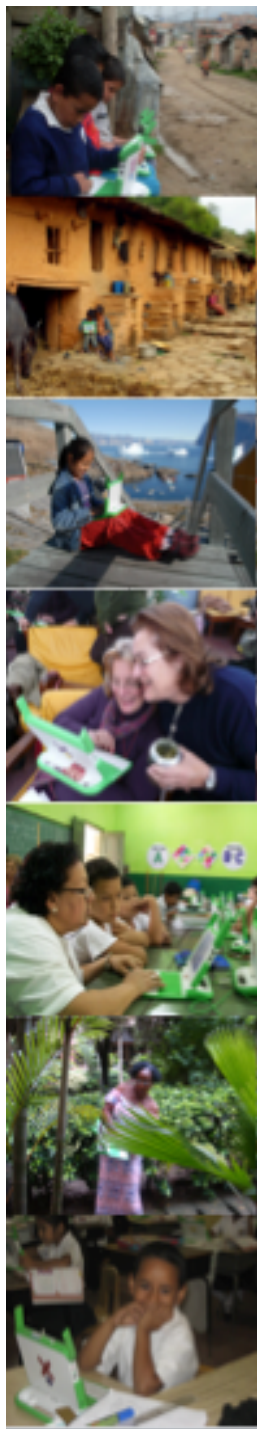

doble y medio

Comunicacion desde
el Journal



Conclusions

- OLPC is an initiative driven by learning
- OLPC initiatives are certainly a laboratory where many aspects of scale can be integrated and studied
- Evaluation strategies have implications in all aspects of the programs (learning/teaching, content development, etc.):
 - Micro: student (Journal)
 - Mezzo: Teacher/student (Server)
 - Macro: Programs/across nations (Global repository)



Thanks!