

Connecting all the children to the Net to bring education everywhere in the planet

### Labdoo Charter

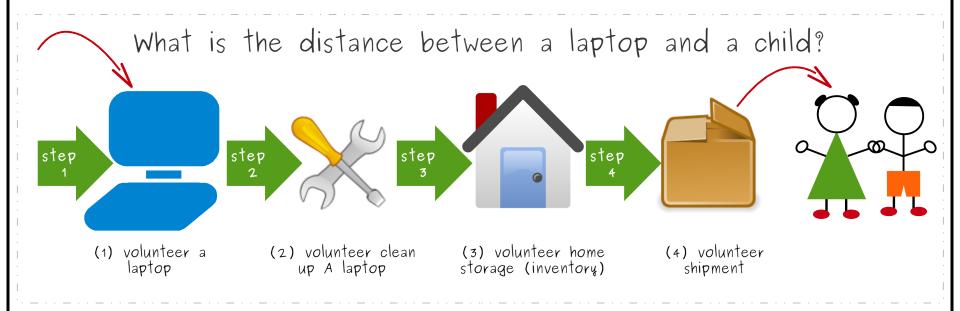
- → Labdoo is a non-profit social network project with a mission to bring technology to the schools of the developing world as efficiently as possible (minimization of opportunity costs)
- $\rightarrow$  Current focus on laptops and portable devices
- → At its core, Labdoo uses a world wide tracking facility (the Labdoo Tracking Engine, LTE) that allows for the tracking and mobilization of laptop resources
- → Labdoo provides a web 2.0-type social network enabling the contribution of anyone owning a laptop. The interface includes a dashboard from where people can manage their laptop donation and further contribute with more volunteering elements as the laptop makes progress to a child.
- → LTE enables a grassroots platform where a huge task can be chopped into millions of small tasks, which are then distributed away to the community and ultimately put back together in a coherent manner.

Every year more than 140 million laptops worldwide are obsoleted and replaced by new ones ... In Africa there are 106 million children at the age of high school ... Imagine for a second if we could all work together to bring our excess laptops to all the children in Africa. Are we up for the challenge? Join the Labdoo Social Network Project and bring the hope of education to every child in the planet!

#### The Challenge:

How to bring a large number of laptops to children in a sustainable way:

4 elements need to be contributed to bring a laptop to a child; these 4 elements define "the distance between a laptop and a child":







donate reinstall OS

abdoo.org

These four elements can be executed in a distributed manner from any place in the planet by anyone who volunteers one or more elements; the work is ultimately put together using web 2.0 tools

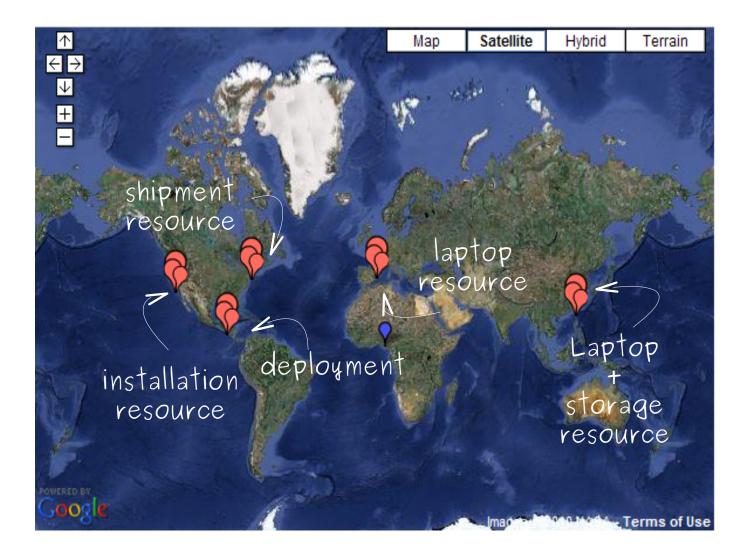


donate home inventory storage



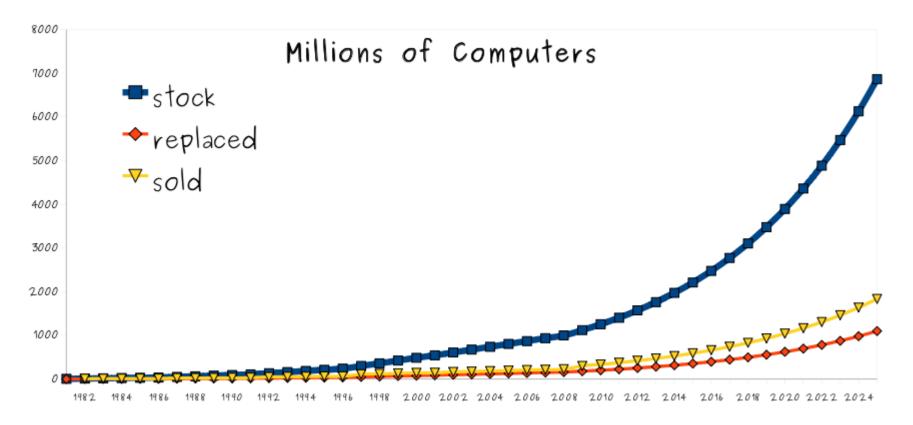
donate shipment

### Labdoo's Distributed Inventory

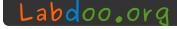


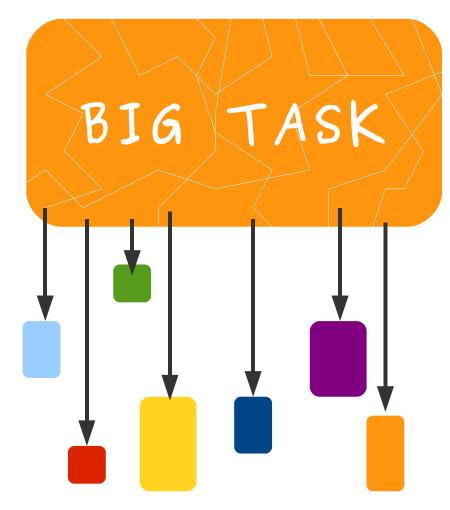


#### Managing the Supply Side\*



\* Model: Gartner, Inc estimated in 2008 a stock growth rate of 12%. The model above is only theoretical and assumes such rate holds through year 2024.





#### Based on the notions of:

- Empowering untapped goodwill
- A commons based peer production
- Accountability
- No single point of failure
- Gluing millions of small

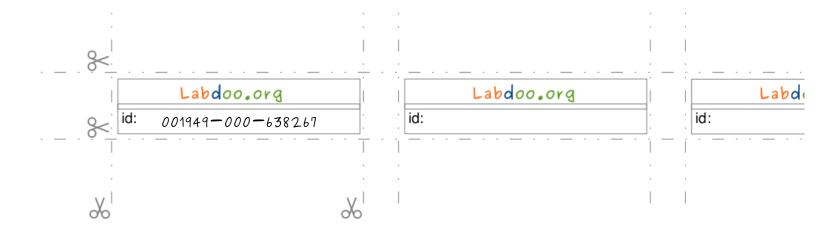
untapped excess capacity

- Productive social network

\*Yochai Benkler, "Coase's Penguin", 2002



# Tracking a Laptop Status

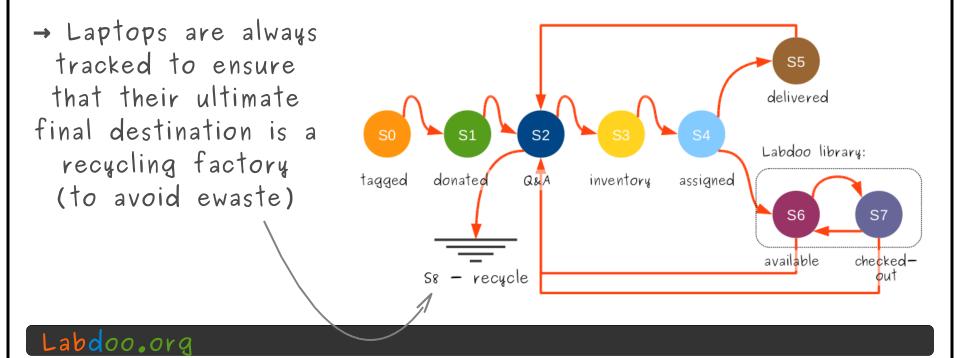


Each laptop is assigned a world wide unique ID so donors, volunteers and recipients can track the location and status from www.labdoo.org

### Labdoo's State Machine (LSM)

 $\rightarrow$  A laptop enters the labdoo web 2.0 system when it is first tagged. Then, as volunteering elements are contributed, it makes progress through the labdoo state machine until it finally reaches a child

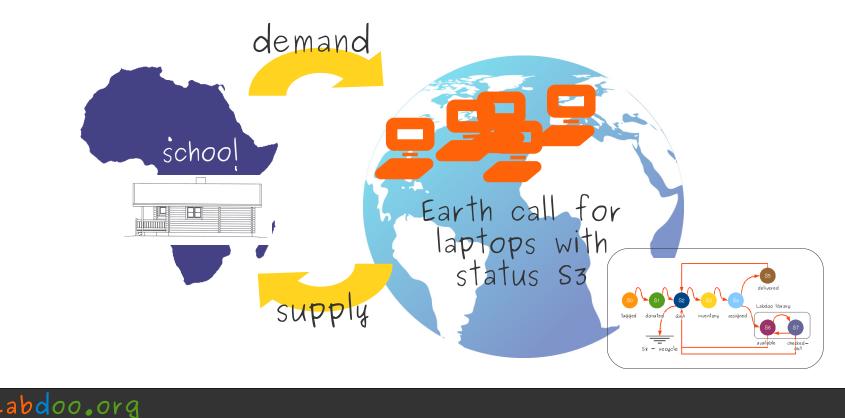
→ Donors can monitor the progress of their laptop and push the laptop through the LSM by contributing more elements

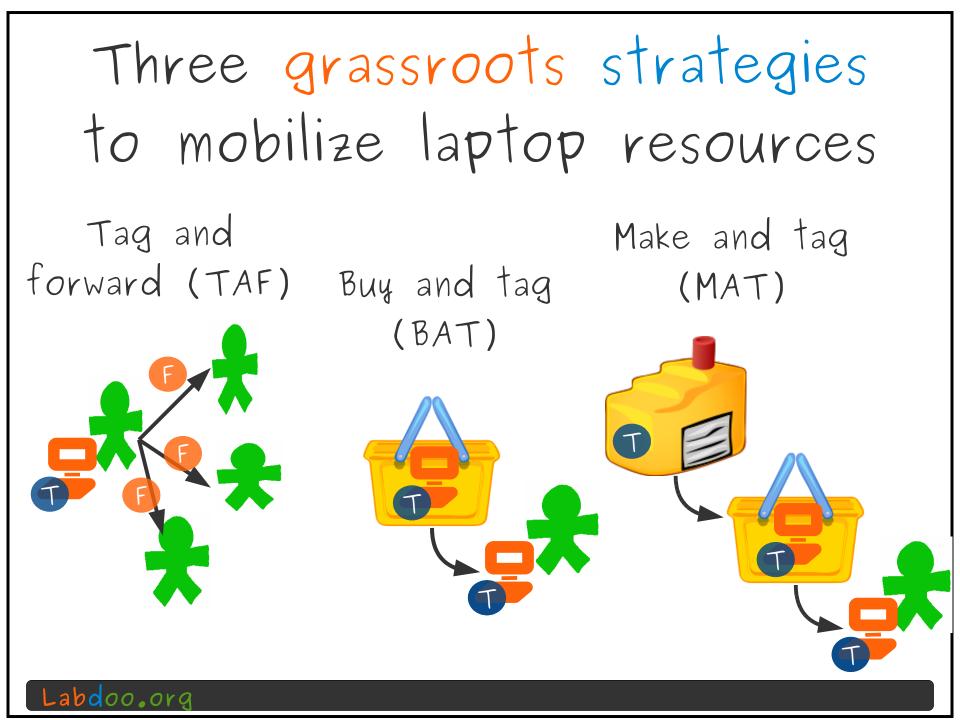


#### A Labdoo Objective: to have all laptops on earth tagged

 $\rightarrow$  This makes worldwide calls for S3-status laptops possible on a per-demand basis

 $\rightarrow$  Efficient ways to mobilize laptops and match supply/demand



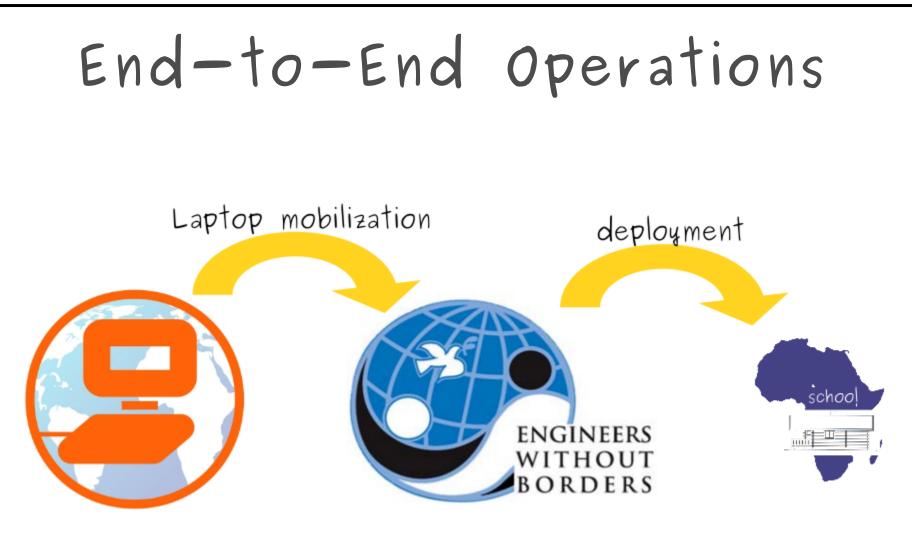


## Labdoo Dashboard

(📇)La	bdoo.org	About Labdoo Earth Invento	ory Tracker News Contact Log
Building laborati	ories for e <b>doo</b> cation one at a time		
testuser			Language 💙
Inventory	Enter Labdoo Global Identifier:	0	
Members	1		Moving Windmills
Tracker			The William
Stories	Home		Kamkwamba sto A kid in Africa read
Deployments	My Dashboard		physics book and builds a windmill
Dashboard	,		Professor Chris
My Account			School Project in Santiago Zamora
Blogs			Profe Chris' teache
Community			music, English, geography,
Labdoo Labs			
Log out			
Register and Tag your laptop today using your Labdoo dashboard Or learn how it works first!	Add Laptop	My Profile	
	Next Steps	Tag and Forward	
	X	Labdoo Global ID	
	My Toolbelt	Print Labels	

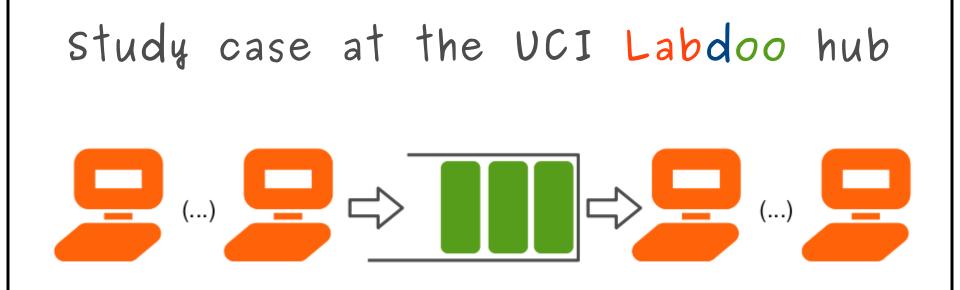
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 → Donors and organizations
oan manage the progress of laptops via the Labdoo dashboard



Examples of Pilot projects: Guatemala, Honduras, more coming





Erlang Law:

laptops retired = total laptops in the system / laptop life duration

At the University of California Irvine there are ~29,000 students and faculty, assume 90% have a laptop (at least) and a laptop life duration of 5 years:

Potential number of laptops retired =

(90% \* 29000 laptops) / 5 years ~ 5,000 laptops/year

## Labdoo Labs

 $\rightarrow$  Labdoo is building a team of Drupal developers to continue to improve the web 2.0 labdoo tools

 $\rightarrow$  We've got lots of ideas in the pipeline! Plenty of things to do, and many more to invent

 $\rightarrow$  Labdoo developers work from anywhere, connected using social network tools and meeting frequently to sync up the work

 $\rightarrow$  Labdoo aims at developing an open platform to provide tools that other technology humanitarian organizations can use

#### Labdoo Tracking Engine: helping technology projects around

- → Labdoo aims at partnering with technology humanitarian organizations to help them track their technology donations using the Labdoo tracking Engine (LTE)
- → The LTE allows every organization to leverage a single tracking infrastructure
- → By having a unique global tracking system, efficiencies are increased (demand/supply matching, avoid fragmented market) and redundancies reduced (avoid reinventing the wheel)



# Tag and forward! contact@labdoo.org

