



WORLD POSSIBLE

July 2013



www.worldpossible.org
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World Possible is a 501(c)(3) nonprofit organization

World Possible

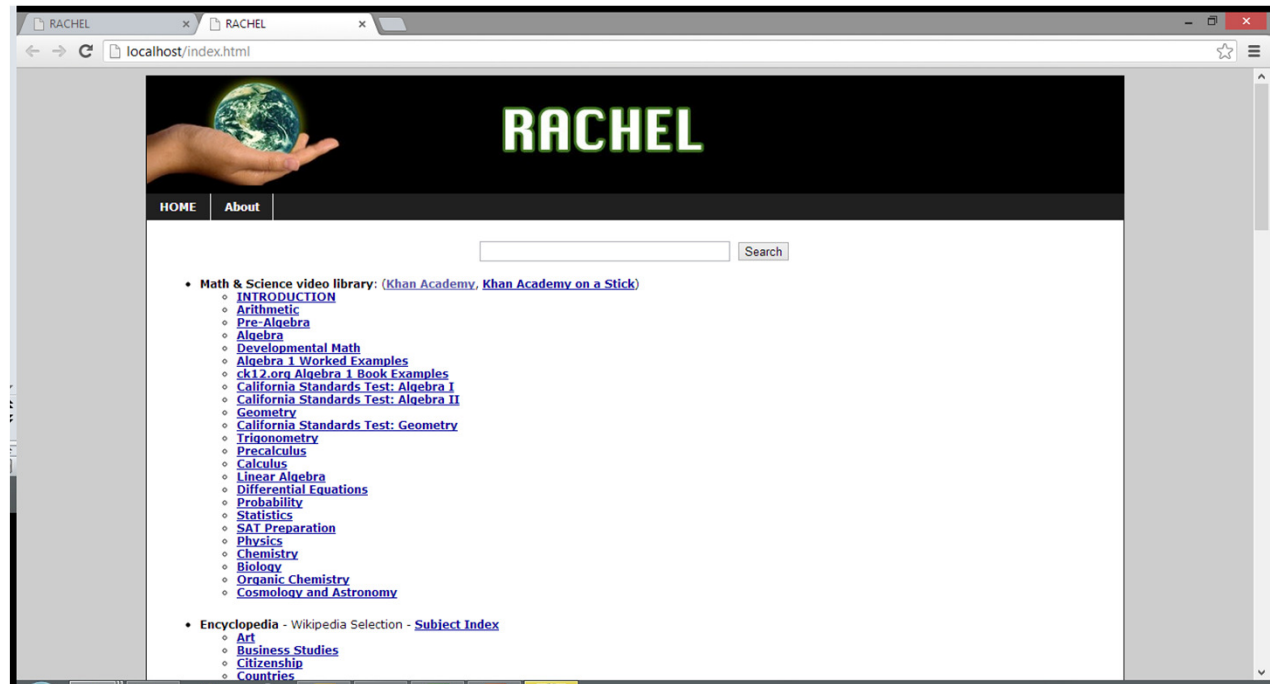
World Possible is a 501(c)(3) organization that develops RACHEL, a database of textbooks, online resources, MIT Open courseware and other sources housed in a server – a PC hard drive, flash drive or Raspberry Pi configuration – and available offline in a web browser interface.

Content Providers



and more

RACHEL Today



- ◆ Database of textbooks, online resources, MIT Open courseware and dozens of other educational materials made available offline at no cost
- ◆ Infinitely scalable solution, server software and content easily copied and used to create additional hotspots by additional devices (PCs, tablets, servers, libraries)
- ◆ Mass adoption and implementation; thousands of RACHEL installations in all corners of the globe

World Possible Reach

World Possible partners with governments, educational institutions and community groups to deliver RACHEL to individuals lacking reliable, high-speed internet access.

RACHEL

RACHEL USB (\$40)



- Infinitely scalable with software to turn any idle computer into server
- Easily updatable with localized content
- Low cost to deploy

RACHEL Pi (\$175)



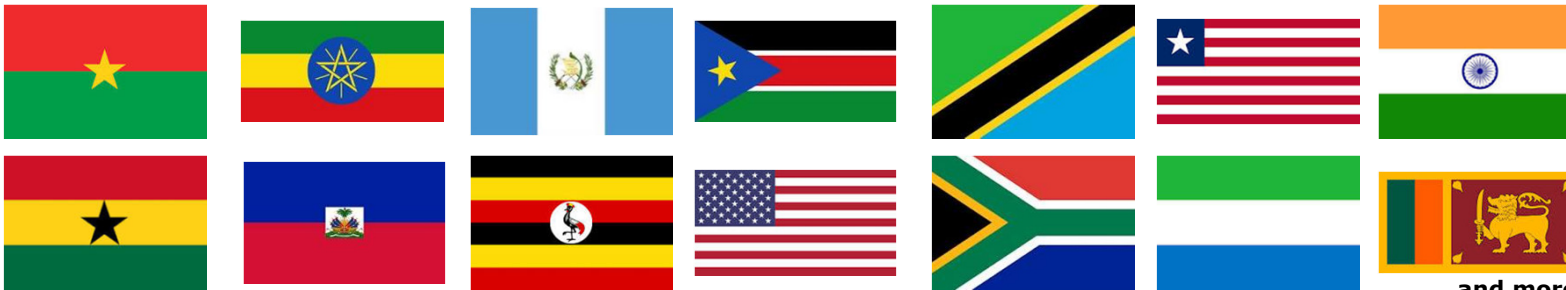
- Plug and play solution for novice computer users
- Allows access in an environment where no computers are available, works with smart phones and tablets
- Low power, can run off battery

World Possible

- ♦ World Possible can bring expertise to deployment locations to help with teacher training, student training, installation and non-technical subjects
- ♦ World Possible's connection to Cisco (where our Founders' worked) has enabled us to offer free education to the Cisco Networking Academy
- ♦ We're developing the largest global network of disconnected communities, developers, content creators and like-minded individuals



Confirmed RACHEL Installations¹



...and more

Market Study

(available by request)

- 1,000's of RACHELs
- Dozens of Install Partners
- Feedback on effectiveness
- 40+ Install Partners abandoned by WP due to lack of WP resources

¹ - As RACHEL is infinitely scalable and entirely offline, we believe there are multiple thousands of copies of RACHEL in use; many we are unaware of.

World Possible Future

World Possible is going to be the all encompassing source for digital education in offline communities. Through our connections to hundreds of field deployments and the creation of World Possible forums, we seek to collect best practices from around the world to build the best computer labs, at the lowest cost with the best offline resources money can donate.



RACHEL Tomorrow

- ♦ Logging software to track usage and effectiveness
- ♦ Ability for user-generated content, portals for sharing amongst local network, downloadable content to phones
- ♦ Functionality for updating content when internet connectivity is present
- ♦ Development of RACHEL content in additional languages (Hindi, French, Spanish)
- ♦ Continued focus on curating the best Creative Commons content available supplemented by locally created content

World Possible Tomorrow

Mobile Charging Stations



-Provide RACHEL to mobile charging stations where students can download content to tablets and phones while they charge

Container Computing Labs



-Preliminary discussions with SunPower Foundation to utilize excess capacity in solar containers used in solid waste living sites as computing labs

Large Scale Deployments



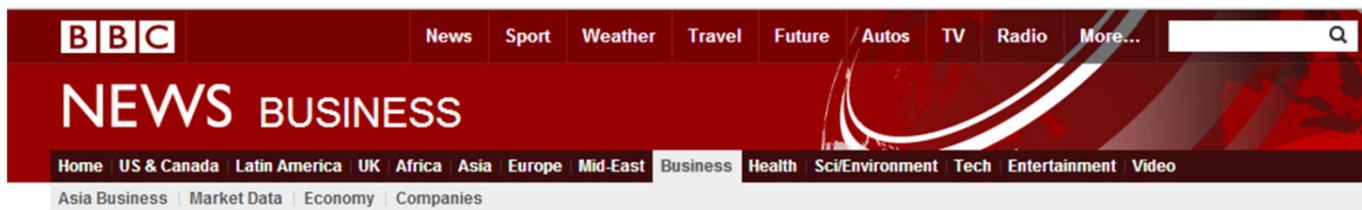
-World Possible has begun to interface with organizations that can deploy RACHEL en masse

Offline Expert Community

-A community of experts led by World Possible's Cisco team to compile best practices for hardware, networking, teaching, and content in disconnected communities

-A robust forum of like minded individuals and a World Possible created in-field prototype center

World Possible In The News



23 July 2012 Last updated at 19:01 ET

715 [Share](#) [f](#) [t](#) [e](#) [p](#)

Can robotics change the future of a nation?

By Fiona Graham

Technology of business reporter, BBC News, Kampala and Nairobi

The Remote Areas Community Hotspots for Education and Learning (RACHEL) repository is a database of textbooks, online resources, MIT Open courseware and other sources. The content is housed in a server - a PC harddrive - and available offline.

It is the creation of a non-profit organisation called World Possible, and in Uganda the content is distributed by their partners UConnect.

"We don't have one textbook per child here as you do in Europe," says UConnect's Daniel Stern.

"The teacher will have the textbook and the students will copy what the teacher puts on the blackboard, so to suddenly have access to an offline Wikipedia where everything is immediately clickable there's a very high level of engagement."



KiBO foundation students using the RACHEL repository. The KiBO foundation provides IT to young Ugandans.

Change Agent

Powering Potential puts technology in schools in Tanzania while respecting local cultures

**The CHRISTIAN SCIENCE
MONITOR**

The 20-plus computers at the school run a program called Remote Areas Community Hotspots for Education and Learning (RACHEL), whose content is proving invaluable to the students.

"The students do not have a library, and although there is abundant educational content on the Internet, in order to access it schools need a fast, dependable Internet connection, and most schools in Tanzania do not have such a connection. That is why the RACHEL content is so important," she says.



Home / EVCOAfrica / Bridging the Digital Divide

Bridging the Digital Divide

By Administrator • on July 15, 2009 • Filed under: [EVCOAfrica](#)



EVCO does not just donate computers; we donate and install networked computer labs. Our computer labs are made to be a research lab as well as a virtual library. With the collaboration of our sister organization "[World Possible](#)", EVCO's computer labs are equipped with an educational program called '[RACHEL Server](#)'. The server contains 178 gigabytes of web-based files equivalent to fifteen thousand books. The greatest advantage of RACHEL is that it contains a great amount of tutorial audio lessons in mathematics and science as well as research materials all in digital web-based form. In EVCO's computer labs, rural school kids not only learn about computers but they benefit from an expandable server which makes ICT fun which thereby allows kids to dream and provides adults the benefits of the World Wide Web for business and other opportunities.



World Possible In The News

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Guest post: A Pi lab in rural Ghana

5th of June 2013 by liz

41 comments

Tags: [developing world](#), [education](#), [Ghana](#), [Khan Academy](#), [RACHEL](#), [The Best of Both](#), [World Possible](#)



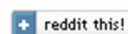
521



105



112



6 Raspberry Pi's have been installed and networked via a switch to a wireless router. One of the Raspberry Pi's is a dedicated RACHEL educational server. [Liz: [you can learn more about RACHEL, World Possible's Remote Area Community Hotspots for Education and Learning, here](#). World Possible are using Pis as servers for materials like textbooks, Khan Academy videos, health guides, world literature e-books, encyclopaedias and much more - we've been very excited to learn about what they're doing.]

The initial feedback from both teachers and pupils on the RACHEL material has been great. They can see that they have access (on the Raspberry Pis, on Android tablets and even on the headmaster's smart phone!) to a huge amount of content without having to rely on poor and expensive internet connectivity. Also attached to the switch is a Windows 7 desktop which will be used eventually as a gateway to 3G internet access as performance improves. The Raspberry Pi clients are using DVI monitors purchased in Accra together with HDMI to DVI cables, keyboards and mice. The monitors were not easy to find and further additions will probably be based on HDMI to VGA converters so that locally sourced cheap screens can be used.

A RACHEL Pi server has also been installed at the Bolgatanga Ghana Education Service so that other teachers can see what is possible and make use of RACHEL as a resource. A further RACHEL Pi server has been installed at TRAX, a local NGO that provides local support to the British School of Brussels. Trax is focused on rural community development, and it will be interesting to see how the healthcare material included with RACHEL can be used.



About Us

World Possible believes in our ability to compile the best content for offline consumption in the world. Our network also provides us insights into best practices for power, networking, hardware, teaching and other issues faced in the developing world. With funding, we believe we can spread our educational materials and technological know-how around the globe.

Next Steps

- As a largely three-man endeavor, part-time since 2009, World Possible and RACHEL have reached an estimated 10,000+ students, through thousands of installations on all major continents of the globe
- Due to a lack of human and financial capital, World Possible has been forced to pass on assisting scores of worthwhile organizations despite the low-cost of shipping servers and high rewards they provide to students. World Possible has been self-funded almost entirely by its team
- Feedback from our market research study (July 2013) shows the critical need for RACHEL upgrades in:
 - English content for elementary school students, secondary school students, and vocational training
 - Specialized RACHEL versions in Spanish, Hindi, French and Portuguese with waiting installation partners
 - An ability for users to generate content (offline Craigslist, message boards, wikis for teachers)
 - Better reliability of our Pi server with ability to download activity logs and update content when connected
 - Ability to download content from RACHEL to smartphones and tablets
- Jeremy Schwartz has committed full-time to developing World Possible and our growth initiatives (pg 3)

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World Possible is a 501(c)(3) nonprofit organization
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