

Case Study: Zimbabwe | July 2017



Nucleos makes it easy to distribute and access the world's information without the need for constant Internet connectivity. By giving users power over their data, we empower schools to offer 21st century learning anywhere.

## **Challenge | The high cost to connect limits opportunity.**

Implementing 21st century digital learning tools in any classroom requires connectivity, content, and IT trained teachers. Schools with limited infrastructure and resources can not provide the innovative e-learning solutions that are available online. ITU estimates that as of the end of 2016, 3.5 billion people are offline. Students that do not have early exposure to digital technology are at a disadvantage to the opportunities from the digital economy.

## **Solution | Accessible learn-anywhere hubs.**

Nucleos lowers the technical and financial barriers to implementing local cloud solutions for education. Included in the company's PortableCloud product offering is an App Store, with both open-source and licensed content, an Operating System to enable offline access to the world's learning resources and the Cube, enabling locally served cloud solution for classrooms. The PortableCloud-OS platform runs in a cloud it creates. That means any device can connect in the browser.

## **Results | Enable a world class learning experience.**

Our learning platform can adapt to little or no bandwidth situations, allowing us to deliver adaptive and personalized learning experiences both online and offline. PortableCloud app store and bi-directional content sharing allows teachers to update and share files and folders with their class. Saving on data costs and enhancing the learning experience.

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## Sandon Academy's Story

Sandon Academy is a private school outside of the country's capital Harare in Zimbabwe. The school is still in its infancy yet has more students than it can currently admit. Students typically live far from campus and live at the school during the semester for an annual fee that covers their tuition, housing, meals, and access to the school's computer lab. The school wanted a system of delivering content to school as they did not have any books in their library.

Sandon is a very innovative school for rural Zimbabwe. Before Nucleos, teachers had introduced the concept of digital learning for their students. Students sharing a computer would have to take laborious notes on the process of arriving to the material because each click took minutes to load, a mistake would mean a class period lost. In a forty-five minute class period with sluggish Internet, getting past the first lesson was a challenge.

With Nucleos, students now access their materials and applications using the PortableCloud platform. Since all of the content is hosted locally, the pages load instantly. We met with the Sandon Academy teachers and they are excited to start using apps like Moodle and Canvas to organize their courses and save time on grading. Through Nucleos, the school now has unlimited bandwidth.

*"Working offline means there are no costs with the use of data."* Chemistry teacher, Sandon Academy

Not only has Nucleos saved money for the school, but it's also helped to empower teachers and students to take full advantage of this digital wave. The students can connect to PortableCloud without worrying about the cost and are hungry to learn more. We have requests for more content and see a window of opportunity to change these children's lives.

Sandon started with no books in their library. Now their students have access to encyclopedias, interactive content, and thousands of digital books.

**Contact us to Learn More, Contribute, or Collaborate!**

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