

INNOVATION AND SUSTAINABILITY

When developing and implementing a project it is necessary to stop and reflect on any future investment in the short-term. It is important to question whether it is sustainable to spend millions on infrastructures such as local networks with cable or Wi-Fi and servers installed in educational centres, when the technological evolution continues to show us that in a few years' time all this technology will be outdated and obsolete. Ask yourself if in a few years, you will be able to undertake an investment to replace this and continue with the project of living digital and keep a digital education project alive.

If, on the other hand, the money is spent on digital mobile classrooms, on balanced and innovative projects that are amortised over a few years, sustainability is guaranteed. Thanks to the technology developed by our company, it is possible to use tablets for students and laptops for teachers anywhere on the planet, breaking the digital divide and facilitating equal conditions and access to knowledge for all students.

Implementing usage of digital mobile classrooms can guarantee the success of an educational project in any area, without requiring an Internet connection, which is both more economical and will also allow all teachers to use it, even if they have little or no technological training. Our technology is proven and has been tested and used on thousands of devices around the world.

A digital mobile classroom can even be used on a bus, in any type of classroom, in the gym or even on the street. It's a revolution in digital education to have such a resource available today.

On the other hand, it is an obligation of governments to ensure the protection of minors on the Internet. Our Internet filter has been the first to be acquired by a government to carry out that function at students' home when they return after school and have to use their tablets and laptops to do their homework. The filter is always on, protecting and taking care of children at all times, inside and outside the school, without reducing the speed of the Internet connection.

By using the Android operating system, we can ensure the best response from students and teachers, as Android is the operating system of 80% of the world's smartphones.



MOBILE DIGITAL CLASSROOM

The introduction of technology in the classroom is necessary and essential for education in the 21st century. It is undeniable that it provides innovative and different learning experiences and methods from those of the 19th and 20th centuries. The numerous projects carried out at the end of the 20th century and the beginning of the 21st have demonstrated the need to integrate and use device management tools, classroom management software, device management (MDM), Internet content filters, parental interaction, etc.

With the change of technology in network cards and no longer having to use cable connectivity, in order to use the Wi-Fi network, we have seen the need to develop software tools that can effectively manage this network. There are many projects that have failed because these aspects have not been sorted out and a level of service guaranteed.

Just imagine having to install an application on 1,000 tablets one by one. This would be an expensive job that would take a lot of time, hours and even days. However, using our MDM this task will only require a few minutes.

The great advance made by our company has been to integrate all of these software tools into the hardware (tablets and CAP – Content Access Point), making a digital and secure education possible anywhere on the planet. All this is possible as we have developed an off-line MDM, that is, tablets receive commands and usage policies directly from a computer without the need to have Internet at any time. We should not forget that the greatest weakness of these types of projects is the infrastructure in communications and civil works, which results in a lack of Internet and electricity in schools.

Teachers need help to face the new challenges of the 21st century. Using our tools allow them to dedicate all the time and effort to teaching their students, who will be the next generation of citizens of their country, and they need this technology to work smoothly. In many projects in different countries, it has been proven that, without easy-to-use management tools, teachers can become discouraged and abandon projects. Our tools are simple to use and are intended for 100% of teachers, not just the small percentage of computer science teachers.

DIGITAL EDUCATIONAL CONTENT

What is school content? They are the key pillars on which the educational project must be designed, and we can find these in several formats, PDF, HTML5, APPS, etc. but all of these aim at achieving a remarkable improvement in the student's learning process.

The contents are normally of a curricular or reinforcement type. It is important to accompany the implementation of tools and digital content with the proper training of teachers in their usage.



In projects where a tablet will be given to each student and heavy paper books will be replaced by digital books, we recommend that these be integrated into the tablets to achieve faster access by students. It is important to note that the price of the digital book is considerably lower than the paper book. In some countries they are even free of charge.

In projects for Digital Mobile Classrooms where the tablets are intended to reinforce education, and provide supports to school students in all subjects that are considered strategically necessary, we recommend that the contents are hosted within the CAP. This type of content will be maintained and updated from the off-line E-learning tool. The specific applications of each subject will be installed and managed from the device manager directly to the tablets, without having to manipulate the files or require an Internet connection. A very common example is to only use tablets for teaching mathematics in workshops for learning languages.

CYBERSECURITY AND CHILD PROTECTION

The protection of minors on any network is fundamental, and is their right as well as that of their families. Many projects are criticised and fail because they do not have adequate security in terms of Internet filtering. Our solution incorporates Escudo Web®, the well-known Internet filter acquired, among others, by the Government of Extremadura for the protection of all its students.



PREVIOUS FAILURES

Many projects of several governments, as well as those of some regional governments in Spain, have failed because they did not have any tool of the classroom management type that worked well with the first mini-laptops in Wi-Fi networks. There are thousands of these devices still unpacked from the boxes after several years.



Other projects, however, have failed to deliver due to overly complicated tools and under-trained teachers.

Currently, there are hundreds of thousands of devices blocked by anti-theft systems, as these are not designed for use without the Internet.

A COMPLETE AND FIT-FOR-PURPOSE SOLUTION



Acquiring a complete and balanced solution has proven to be the fastest and most efficient way to implement a project. Often technology is acquired from different manufacturers or suppliers, that later turn out to be incompatible with each-other. It is important to use technology that has been tested in difficult environments, as most devices and products are developed for urban areas which are highly developed technologically, which when taken to rural areas or those with poor infrastructure are completely useless.

In short, while it may seem more expensive at first, in reality it is much cheaper because the technology is used to its full potential instead of being stored somewhere or locked away in a school cupboard.

Our solution is sustainable, balanced, proven and, above all, universal in its application. It is developed for use by everyone, everywhere.

Carlos Rueda Galán

CEO

The graphic is a composite image. On the left, a white trapezoidal shape contains the Escudoweb logo (a blue and green hexagonal icon) and the text 'escudoweb'. Below the logo are icons for a laptop, a wireless router, and three tablets, each with a Wi-Fi signal icon. On the right, a blue trapezoidal shape contains a list of features: MDM, smart control, wifi networks, apps manager, classroom manager, education contents, and internet content filter. Below the list is the text 'Learning everywhere!' in white. At the bottom right, a photograph shows a diverse group of smiling children of various ethnicities and ages, with a chalkboard background.