

# Uruguay in a nutshell



Located on South America's Atlantic coast, it is twice the size of Portugal.

95.6% of its 3.49 million population live in urban areas.

**91% of the homes have internet access, 72% through broadband. 83% of the population use the internet daily.**

**21% of the Uruguayan homes own a Ceibal device. This number grows to 38% in lower income homes.**

[Eutic, AGESIC, 2022](#)



# Uruguay in a nutshell



**#1**

LATAM Strongest democratic system  
[The Economist Intelligence Unit, 2022](#)

**#1**

LATAM GDP per capita  
[The World Bank, 2022.](#)

**#2**

LATAM GINI Index  
[World Bank, 2022](#)

**#TOP**

Prosperity index  
[The Legatum Institute, 2023.](#)

**#TOP**

Free Country (Index of economic freedom)  
[Heritage, 2023](#)

**#1**

LATAM Digital Government  
[ONU, 2022](#)

**#1**

LATAM ESG ranking (Environmental, social, and governance) [EUI Rating, 2022](#)

**97%**

Electricity generation with renewable sources  
[Uruguay XXI](#)

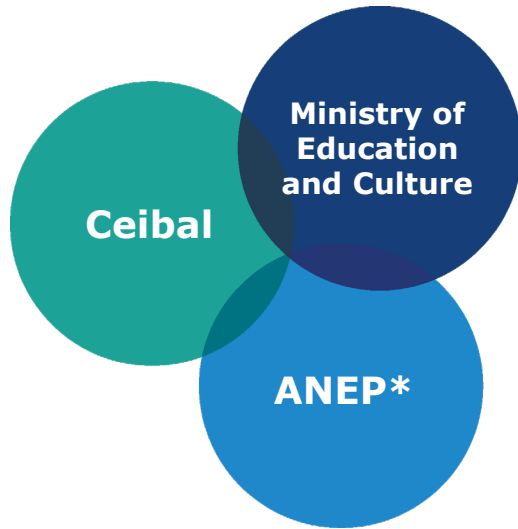
**#1**

LATAM Digital quality of life index  
[Surfshark, 2023](#)

**#1**

LATAM literacy rate  
[UNPD, 2005.](#)

# Uruguay's education system



Created in 2007, Ceibal is Uruguay's agency of educational innovation and digital technologies that promotes technology integration at the service of education to improve the quality of learning, enhancing innovation, inclusion and personal growth.

\*National Administration of Public Education.

Coibal

LOS CEIBOS



# Ceibal main achievements



Ceibal assures **universal access** **100 %** 6-15 year old students with their own device.



**100 %** of public schools (and high schools) with **broadband** internet access.



Ceibal makes an in-depth Edtech service **curation**.

Through ANEP, Ceibal makes this offer **available to the entire public education system**, including, education programs, platforms and teacher development opportunities.



Management of virtual classes in a pandemic: In 2021 Ceibal reached **85% of the Primary Education students and 90% of the Secondary Education students**.

**Exemption from the cost of data traffic** for the video conference system and platforms.

# Ceibal areas of contribution



Technologies for Education

Delivery of **devices** for all students, **repairs and support, broadband internet connectivity** for education, **VC, digital ramps (inclusion)** and **technology** to learn by doing.



Educational Platforms

World-class **platforms** for education **customized for Uruguay**. LMS & ecosystem of platforms with a single sign-on.



Educational Programs

**Programs** development in accordance with the requirements of the educational system. CEI (English), Computational Thinking, Digital Citizenship, Ceilabs (maker spaces). Global alliances: New Pedagogies for Deep Learning. Design for change.



Teachers' Professional Development

Wide range of initiatives and **training** proposals for teachers to integrate digital technologies and innovative pedagogical approaches.



Strategic Information

Data **analysis** and **information** generation for decision making. Assessment of the effectiveness of policies and programs implemented.

# Accessibility

**Hardware and software for inclusion!  
Digital tools that enable students  
with special needs to use Ceibal  
Devices and access our ecosystem.**



[Eugenia](#)



# Professional development



EDUx Ceibal (Open EDX) Open platform that allowed to make massive teacher training in Uruguay through online courses.

It has a functional module with accessibility features.

Course offer is wide and varied, including accessibility in the course "[Aproximación a la Accesibilidad web y a las rampas digitales](#)"

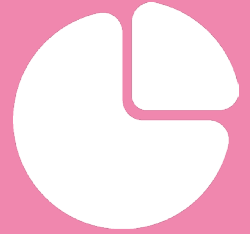


# User experience



- Ecosystem of Education Platforms (LMS, Math, Spanish, English, Computational Thinking and a Digital Library)
- Single Sign On to access the ecosystem
- Front end customized to users (each audience has the platforms available in a single dashboard)

# Data and Behavioral Science



## Two main goals

**1**

**To provide data analysis , that is user centered to inform decision making at three levels.**

- Classroom Level (Use of platforms, engagement in Ceibal initiatives)
- School level (Monitor de Centros)
- Policy Level ( Data Observatory)

**2**

**To evaluate programs and implementation of education policies implemented by Ceibal**

# Cognitive Science in Education



## How we learn matters

Our goal is to help teachers understand how students learn and how to use that information to enhance their teaching.

## How we do it

We are exploring national and international proposals that provide practical tools to help teachers improve their knowledge in cognitive sciences, as well as to help them find the best ways to integrate this knowledge in their practices within the classroom and their students.



The Ceibal Foundation is an autonomous organization that seeks to solve challenges related to the **learning and mediation of technologies**, through innovative methodologies and with a practical, social and participatory approach.

Is linked to international spaces of exchange and work on education, innovation and technologies such as the Broadband Commission and the UNESCO Global Coalition for Education.

## Education Sector Found “Digital Inclusion”

- Start: 2015
- National and international calls
- Prioritisation of policy-relevant lines of action (Ceibal y ANEP)
- Systematisation of projects on the [Ceibal Foundation website](#)





## What we need to address

Digitization, disruptive technologies and sustainable development.

New challenges for tomorrow's school.

**Technology is not the answer to all education problems, but it is impossible to imagine a future without technology in education.**



# What are behavioral sciences?

- A convergence of disciplines (economics, psychology, sociology) that study human behavior.
- They propose an evidence-based approach to human behavior in some aspects.

# Using **behavioral perspectives**

**involves applying the scientific method in order to understand:**

- How people make decisions in their day-to-day lives
- How people react depending on how options are presented
- What factors influence human behavior

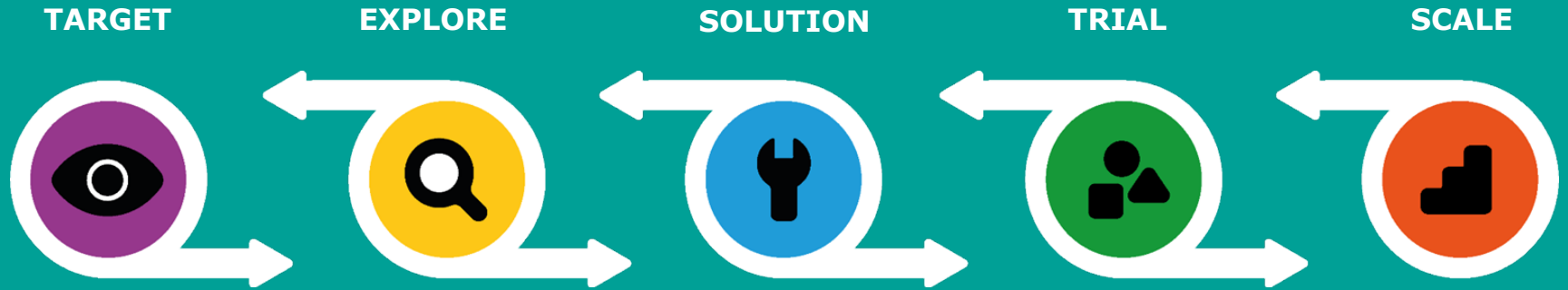


**Behavioral sciences can provide a realistic explanation of how and why we act the way we do, allowing us to design or redesign policies accordingly**

# Why Behavioral Sciences in Education?

- Complex and multi-causal problems require diverse approaches; the behavioral dimension cannot be left out when facing challenges in Education
  - For simple, cost effective interventions
  - To concentrate economic efforts on structural barriers
- Progress in impact assessment: abundant international evidence

# Educational innovation at Ceibal



**Example:  
videoconference  
as a learning tool**





A group of students with backpacks walking towards a school building. The building is light-colored with large windows. A large tree is on the left. The sky is blue with some clouds. The text 'SCHOOL' and 'AJÉ' is overlaid in white, with a small teal circle between them.

SCHOOL o AJÉ

RAA | #ZZ

**Example:  
stories as learning  
environments.**







**Example:  
encouraging  
students  
to take a test**

# Overcoming emotional barriers

- Increase attendance rate of applicants to tests
- Build confidence, break down myths about the difficulty of the test and provide a champion they are familiar with.

Results:


**Attendance rate increased from 64.8% to 67.8%**




**Tool:**  
**WhatsApp**  
**messages**

Hola [nombre], te contactamos desde Ceibal por tu postulación para la prueba AcreditaCB.

Sabemos que enfrentarse a una prueba no siempre es fácil y puede generar ansiedad, ¡pero no estás sol[o/a]! Algunas personas que dieron la prueba el año pasado nos dijeron que prepararse los ayudó a sentirse seguros:

 "Fácil nunca pensé que iba a ser, tenía miedo, temor a lo que me iba a enfrentar. Me dio confianza saber que había material en la página. A veces controlar las emociones es más difícil que tener los conocimientos. Igual, me pareció una prueba que si la preparás es accesible". Cris, postulante AcreditaCB 2022.

Te sugerimos dedicar algunos minutos a revisar cómo son los ejercicios y el sistema informático de la prueba para sentirte más preparad[o/a]. Hacé click aquí: [bit.ly/3WTU5ie](https://bit.ly/3WTU5ie)

¡Éxitos! ¡Lo podés lograr! 

15:32 ✓

**Example:**

**Improving**

**test performance**

# Reframing stress

- Improve women's performance in **STEM tests**
- Reduce the number of test questions women leave unanswered
- Reduce stress and anxiety of young women before a **STEM test**

Results:

Gender gap was **reduced by 80%**

**Women pass rate** increased by **10%**

Tool: Relaxation and breathing exercises



**Antes de continuar con la prueba...**

Recuerda que en una tarea anterior fue argumentado que las personas experimentan una respuesta de estrés fisiológico en muchas situaciones, ejemplo: tomar un examen de un curso. Esa respuesta de estrés es necesaria para un mayor estado de alerta y capacidad de respuesta.

Se ha observado que para algunas personas resulta beneficioso realizar algunas técnicas para reducir o atenuar la ansiedad:

1. Las respiraciones profundas y completas, con exhalaciones más largas que las inhalaciones, son útiles para calmar la mente.
2. Visualizar en tu mente un lugar que te produzca calma: puede ser una playa silenciosa, un bosque lleno de árboles verdes y flores, o flotando en el mar sin ninguna preocupación.
3. La relajación muscular progresiva, que consiste en llevar la atención de uno a uno a cada músculo del cuerpo, contraerlo primero y luego relajarlo por completo.

De estas tres, elige una técnica y dedica los siguientes 30 segundos a simplemente respirar profundo (puedes probar inhalar en 4 tiempos y exhalar en 6), visualizar un lugar de calma o relajar tu cuerpo. Prueba hacerlo cerrando los ojos.

# And now, **what?**

- The perpetual marathon. Education as a permanent cycle.
- Public policies inspired by the scientific method.
- Build bridges between scientific knowledge and teaching practice. Move from paper to classroom. What we know about neurocognition does not reach the teaching practice.
- Train the trainers. Whatever we want to happen in the classroom is in the teachers' hands.



**Keep learning  
from the future**





[http://bit.ly/Ceibal\\_en](http://bit.ly/Ceibal_en)