

# ESCOLA BÁSICA DE BOA ENTRADA



## Mundubila

A new generation of Education

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# 4 QUALITY EDUCATION

Ensure inclusive and equitable quality education and promote lifelong learning opportunities for all



Figure 1 Goal 4 for Sustainable Development - UN until 2030

## Mission

Mundubila's mission is to empower teachers and students at Boa Entrada School, in Lobata district in São Tomé and Príncipe by providing pedagogical training, up to date materials and a connection between teachers through technological educational tools. The aim is to minimize the needs and increase the educational training and teaching quality in this community.

## Vision

In this technological era, where Internet reaches places where books are scarce, we believe it is possible to fill the gap of outdated teaching materials in remote communities with low cost technologies. We intend to empower Boa Entrada School in becoming more autonomous and connected to the global world through a knowledge-sharing platform. Evaluating the impact of such projects generates valuable input for creating and adapting new strategies that can implemented in other schools and communities.

## Values

We establish the respect for the will, vision and values of teachers, guardians and students of Boa Entrada School as the fundamental pillars of this project. It is a project of the school itself, aligned with its own aspirations and needs.

These values fit in Goal 4 – Quality Education – from United Nations Sustainable Development Goals (SDG) that were adopted to be implemented until 2030 (<https://www.un.org/sustainabledevelopment/education>). Its targets are as follow:

- By 2030, ensure that all girls and boys complete free, equitable and quality primary and secondary education leading to relevant and Goal-4 effective learning outcomes
- By 2030, ensure that all girls and boys have access to quality early childhood development, care and preprimary education so that they are ready for primary education
- By 2030, ensure equal access for all women and men to affordable and quality technical, vocational and tertiary education, including university
- By 2030, substantially increase the number of youth and adults who have relevant skills, including technical and vocational skills, for employment, decent jobs and entrepreneurship
- By 2030, eliminate gender disparities in education and ensure equal access to all levels of education and vocational training for the vulnerable, including persons with disabilities, indigenous peoples and children in vulnerable situations
- By 2030, ensure that all youth and a substantial proportion of adults, both men and women, achieve literacy and numeracy
- By 2030, ensure that all learners acquire the knowledge and skills needed to promote sustainable development, including, among others, through education for sustainable development and sustainable lifestyles, human rights, gender equality, promotion of a culture of peace and non-violence, global citizenship and appreciation of cultural diversity and of culture's contribution to sustainable development
- Build and upgrade education facilities that are child, disability and gender sensitive and provide safe, nonviolent, inclusive and effective learning environments for all
- By 2020, substantially expand globally the number of scholarships available to developing countries, in particular least developed countries, small island developing States and African countries, for enrolment in higher education, including vocational training and information and communications technology, technical, engineering and scientific programmes, in developed countries and other developing countries
- By 2030, substantially increase the supply of qualified teachers, including through international cooperation for teacher training in developing countries, especially least developed countries and small island developing states

# Goals

This project encloses 2 phases. The funding needed is essentially allocated to Phase 1:

## 1st Goal – acquisition and set up of technological material

- 15 Raspberry Pi computers + accessories
- UPS battery
- Projector screen
- Webcam
- Speakers set
- Internet connection
- Travel for 2 members of the project to set up the equipment (Software Engineer) and training (Teacher)

## 2nd Goal - Virtual learning and knowledge-sharing environment

- The latest teaching and learning material aligned with the school curriculum
- More pedagogical training (only 27% of these teachers have formal pedagogical training, the other 73% are currently in training)
- Reduce the need of printing material giving preference to projection of content
- Make Internet and technology part of students and teachers' school life
- Create distance learning and offering extracurricular classes (e.g. coding classes)

# Budget

The unit value corresponds to the lowest market value found within the models considered compatible and adequate to the projects' requirements. The flight values are correspondent to low-season average prices.

Items	Unit value (€)	Quantity
Raspberry Pi	36,63	
Monitor	147,74	
Keyboard + mouse	8,90	
MicroSD memory card	8,90	
<b>Total Kit Computador<sup>1</sup></b>	<b>202,17</b>	<b>15</b>
UPS battery	50,78	1
Router	108,76	1
Ethernet cable	10,00	1
Ethernet connectors	5,00	1
Power strips	11,10	7
Video projector	89,99	1
Projection screen	20,00	1
Webcam	24,72	1
Speakers	31,00	1
External hard drive	46,99	1
Internet (1 year)	696,00	1
Flights	600,00	2
<b>Total</b>	<b>5393,49</b>	

Figure 2 Raspberry Pi is a low-cost high-performance computer that needs to be connected to external monitor, keyboard, mouse and MicroSD memory card <https://www.raspberrypi.org>

# Achievements

The tasks already promoted and completed by the project were:

- Crowdfunding campaign successfully funded (<https://ppl.pt/en/node/407376>)
- Revenue of drink sales management in Christmas party of a startup hub for the project
- Collection and dispatch of books and teaching material
- Promotion and fundraising in different events (including Websummit)



Figure 3 Interview at broadcast Manual de Instruções for RDP África

While promoting our project we received several invitations from Portuguese media:

- Radio program Manual de Instruções - RDP África  
<https://www.rtp.pt/play/p816/e328485/manual-de-instrucoes>
- TV show Agora Nós - RTP1  
<https://www.rtp.pt/play/p4223/e324943/agora-nos/629374>
- TV show Faz Sentido - SIC Mulher  
<https://sicmulher.sapo.pt/programas/faz-sentido/videos/2018-01-09-Projecto-Mundubila---Ilha-de-Sao-Tome>



Figure 4 Talking about Mundubila on the live TV show Agora Nós at RTP1

Mundubila raised 3040.69€ up to now, as a result of all of these initiatives.

Key partners	Key activities	Value propositions	Donor relationship	Donor segments
<ul style="list-style-type: none"> <li>• Monetary supporters</li> <li>• Material Supporters</li> <li>• CST mobile operator</li> <li>• Teachers</li> <li>• Experienced people in similar projects</li> </ul>	<ul style="list-style-type: none"> <li>• Fundraising</li> <li>• Promotion and partnerships</li> <li>• Technological material set up</li> <li>• Educational support</li> </ul>	<ul style="list-style-type: none"> <li>• Increase the educational training of teacher</li> <li>• Share up to date teaching material</li> <li>• Reduce the need of printing material</li> <li>• Make Internet and technology part of students and teachers' school life</li> <li>• New curricular opportunities</li> </ul>	<ul style="list-style-type: none"> <li>• Updated feedback of project achievement s through e-mail and social media</li> </ul>	Individuals <ul style="list-style-type: none"> <li>• Friends</li> <li>• People whom regularly support causes</li> </ul>
<b>Key resources</b>			<b>Channels</b>	Collectives <ul style="list-style-type: none"> <li>• IT companies</li> <li>• Airlines</li> <li>• Other companies</li> </ul>
<b>Cost Structure</b> <ul style="list-style-type: none"> <li>• One-time cost: IT material and flights acquisition</li> <li>• Fixed cost: Internet package subscription</li> </ul>			<ul style="list-style-type: none"> <li>• Friends' network</li> <li>• Social media</li> <li>• TV and radio channels</li> </ul>	
<b>Financing</b>			<ul style="list-style-type: none"> <li>• Crowdfunding</li> <li>• Partnerships</li> <li>• Events</li> <li>• Spontaneous donors</li> <li>• Raffles</li> </ul>	

Ilustração 5 Business plan



Figure 6 Presenting Mundubila on the TV show Faz Sentido at SIC Mulher

# Schedule

We aim to raise 2352,80€ in order to achieve the total budget need for this project. As soon as we get close to financing the complete project we will initiate the following scheduled tasks:

Actions	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6
Development of a training plan in partnership with Boa Entrada School's teachers						
Acquisition and delivery of the technological material						
Negotiation with CST mobile operator in order to prepare the installation of the internet connection in the school						
Assembling of IT material in Portugal (model test) + preparation, installation and set-up of knowledge sharing platform and remote assistance system						
Assembling and set up of IT material + Training of teachers at Boa Entrada School						

Figure 7 Estimated timeline

# Team

Mundubila team met in 2016 after two different visits to Boa Entrada School. Facing the warm welcome from teachers and students, and specially their enthusiasm with their jobs and their desire to provide children a better education, we felt the urge to gather our different skills in favour of this community.

After collecting textbooks and other school material with the help of our friends, we realized that the outdated information they contained, the lack of standardization and the difficulties in shipping it to São Tomé and Príncipe were aspects that make the impact of such contribution barely positive. However, since the school was placed in a district where Internet connection was available, we have seen on it an opportunity to overcome those obstacles.

So Mundubila was born with the idea of a knowledge-sharing platform, in a structured, continuous and collaborative way.



Patrícia Longo



Carla Azevedo



Gilson Ramos



Hugo Lopes



Margarida  
Azevedo



Sofia Tonim

Pharmacist

Teacher

Director of Boa  
Entrada School

Software  
Engineer

Lawyer

Entrepeneur

## MUNDUBILA-ASSOCIAÇÃO

Mundubila is a project developed by the non-profit association MUNDUBILA-ASSOCIAÇÃO, 514747048 (NIPC), created to fulfil legal requirements from fundraising campaigns.



[mundubila@gmail.com](mailto:mundubila@gmail.com)



<https://mundubila.github.io>



<https://www.facebook.com/mundubila>