

Our Project “Ellas Programan” is an initiative that is based on the need to look for opportunities to include girls and their mothers in the area of knowledge and learning, the Quirós Tanzi Foundation perceives a lack in the number of women who enter professionally in these areas, When we review participation rates at the level of our country, it is worrisome to see that when it comes to issues of technology and robotics, women have a 20% participation with respect to the remaining 80% or more for men, this shows that they do not feel interest, they do not feel capable or do not have confidence in themselves to carry out the skills, they may not even know they have.

Gender roles are very marked even in our society and many professional positions and their tasks are reflected as "facts for them" and there is no female position that strongly debates such proposal.

As Solezzi S. (2016) mentions in her publication: For more women in the technology of the newspaper La Nación: "The latest figures from the National Council of Rectors (CONARE) show that only one in three women graduated in careers related to Science, Technology, Engineering and Mathematics, STEM for its acronym in English (Science, Technology, Engineering and Mathematics) .The vast majority of them specialize in social sciences, education and health sciences. "We as a foundation are focused on education and technology to support knowledge in all areas.

In our robotic workshops in schools of every 10 participants in programs, 8 members are children and only 2 are girls, of which only 1 completes the learning process.

Quoted above, we believe that our initiative should focus on changing minds at an early age that will lead them to a different path with future impact. The “Ellas Programan” is an initiative created by the Quirós Tanzi Foundation to awaken the interest of preschool and primary education. and teen girls. about how to achieve? Integrate technology into their lives as a fundamental tool in their daily performance.

The project consists of 10 robotic sessions each of 2 hours once a week.

In the primary space, the girls will be accompanied by their mother in all the sessions because the level of learning is appropriate for both, for the preschool and the secondary school they will work individually, their mother and family will participate in one of the sessions. We firmly believe that your family and your mother must believe in it as a



complement to their effort and commitment, this will make them believe even more in themselves.

The objectives we want to achieve are: to train girls and adolescents in technology issues related to skills, logical abilities and even self-esteem problems; generate a collaborative work space and training where projects are worked on behalf of the community that surrounds them, integrate critical thinking and sociability as a tool for problem solving and thinking ability. Develop in girls and adolescents technical skills in programming, robotics and mathematics that favor their subsequent insertion in technology and science careers. Discover in girls and adolescents the social competences that strengthen their leadership, self-determination and permanence in the educational system.

Our social impact is to awaken three generations capable of achieving much in their favor, not only by growing, learning and putting their knowledge into practice, but by being a role model for many girls in their school, kindergarten, school and community. Women once they manage to understand, fall in love with programming and robotics have shown through the surveys we conducted in week # 1 and week # 8 (the last session) go from aspiring to be teachers to be astronauts or "designers of robots that help people" as they describe in the interviews we conducted at the end of the program. Opening the doors to a more prepared generation that looks for opportunities and does not let itself be diminished by its gender will be our legacy for a future mother who knows about these opportunities for her daughters and for future generations. In addition to the social impact we can also address issues such as the "back to school" of many mothers who had not been encouraged to return to the classroom, once they have this contact with education they recover the ability to re-believe in them and their abilities, in some cases it is their first title obtained; This reconfirms us that programs where we include women (mothers) and girls (who already participate in the educational system) activate familiarly the desire to learn, to be trained and to be better.

We believe that this type of initiatives are replicable and scalable as they not only impact families but also communities, a family that has a mother with knowledge in technology will be able to develop in their children the confidence and initiative to achieve all their goals by motivating not only the study of His children, but the other generations that descend from that family, will be replicable as long as this initiative is in them and their families and remains in time. The acquisition of these equipment for the Quirós Tanzi Foundation will make it a sustainable effort, since many generations of our schools will be able to use it to



learn with new workshops they program throughout the 80 schools that are part of our project, that covers technology in the hands of children and in this case girls.

“Ellas programan” is a window for the new generations to transcend with the passage of time, choose the path they want to follow and can be involved with specialties and knowledge that will make a difference in them; this makes us shape a generation that can change its destiny with small changes that guide them to be more qualified professionals in technology, soft skills, teamwork and finally construction of a strong mentality focused on continuous improvement.

Budget:



Project: Budget for Empower girls in technology and robotics

Start date: 15/04/2019

Budget

Quantity	Equipment	Detail	Code	Unit cost	Total	Taxes
40	PC	Clamshell	-	\$500.00	\$20,000.00	\$3,000.00
14	Hummingbird	Robotic Kit	LargeClassic	\$292.17	\$4,090.43	\$613.57
4	WeDo 2.0	2.0 Version	-	\$285.22	\$1,140.87	\$171.13
20	Kibo	Preschool	-	\$521.74	\$10,434.78	\$1,565.22
30	Arduino	Teenagers	-	\$116.52	\$3,495.65	\$524.35
				Subtotal	\$39,161.74	\$5,874.26

Total
\$45,036.00