








**ROTARY CLUB:** C.R Cartago. Pedro Morales Pino

**ROTARY DISTRICT:** 4281

**CITY:** CARTAGO

**NAME OF THE PROJECT:** RotVolutionSTEM Peace & Prosperity, peace and prosperity through STEM (Science, Technology, Engineering, and Mathematics) knowledge.

**AREAS OF INTEREST:**

	<b>PEACE &amp; CONFLICT PREVENTION/RESOLUTION</b>		PREVENTION & TREATMENT OF DISEASES
	WATER & SANITATION		MATERNAL & CHILD HEALTH
	BASIC EDUCATION & LITERACY		COMMUNITY ECONOMIC DEVELOPMENT
			ENVIRONMENT

**OBJECTIVES OF THE PROJECT:**

Empower our vulnerable young people to be recruited by criminal gangs, through technological skills, which generate vocations for professional careers and well-paid productive sectors, breaking the circle of the illegal economy and violence in their social environment.

**DESCRIPTION OF THE PROJECT:**

In the different educational establishments, teachers have seen for themselves how talented, but vulnerable young people end up being part of the armed conflict in Colombia (drug trafficking and criminal gangs), some even fail to finish their basic studies.

This group of volunteer teachers was able to show that young people who were part of their training in STEM areas were less likely to join criminal groups, and easily continued their university education and quickly entered the labor market, changing their family environment and social, thanks to the prosperity that this type of companies provides them.

They also noted that some students were more vulnerable to being recruited by criminal gangs, due to not having a support network to guide them once they finished their basic secondary education.

Volunteer teachers: Group of regular teachers from an educational institution, who donate their time, overtime, to train young students of the institution in STEM knowledge.

PLEASE DESCRIBE WHAT NEEDS YOU IDENTIFY? HOW WILL THE PROJECT MEET THESE NEEDS? WHO WILL BE THE BENEFICIARY OF THIS PROJECT? CITE AN ESTIMATED NUMBER OF BENEFICIARIES.

During the field work with the different volunteer teachers, the lack of modern teaching tools for STEM teaching was noted, in addition to a support network that accompanies young people during their professional training process, until they enter the workforce.

This project can change this reality by giving a greater goal, STEM education plays a crucial role in reducing violence by promoting social and emotional skills, providing technological tools to prevent bullying, and fostering a collaborative and supportive educational environment. The combination of interdisciplinary approaches and active participation in the community are essential to address this challenge comprehensively.

Number of people benefited: This project hopes to empower more than 5,000 young people in grades 8, 9, 10 and 11 in the first year, who will participate in the STEM incubators and use the teaching laboratories in their regular training.

### Activities to Develop:

CATEGORY	Description of the activity	Quantity	Total cost COP	Total cost USD
Training	Training in conflict resolution and positive peace	100	4.200.000	\$ 1.091
Training	Soft skills training	100	4.200.000	\$ 1.091
Training	Training Design thinking	100	4.200.000	\$ 1.091
Training	Psychological support for vulnerable young people	100	4.200.000	\$ 1.091
Sen.Sociofamiliar	Training on communal and family peace	100	4.200.000	\$ 1.091
Public Image	Hosting, website, social networks	1	3.000.000	\$ 779
Public Image	200 Caps, t-shirts, backpacks and pencils	1	24.500.000	\$ 6.364
H.didacticas STEM	Pairs of Drones for teaching	40	28.000.000	\$ 7.273
H.didacticas STEM	ROBOT SUMO 32U4	40	60.000.000	\$ 15.584
H.didacticas STEM	Large format 3D printers	10	50.000.000	\$ 12.987
H.didacticas STEM	Galaxy Planetarium-Star Projector. For teaching astronomy	10	6.000.000	\$ 1.558
H.didacticas STEM	STEM Kits. LEGO type Block Modules	10	6.000.000	\$ 1.558
H.didacticas STEM	Giant Prismatic Astronomy Binoculars	10	7.000.000	\$ 1.818
H.didacticas STEM	High Power Laser Pointer, Long Range.	10	4.000.000	\$ 1.039
Administration of the project	Accounting, income tax return and other taxes	1	6.285.000	\$ 1.632
Unforeseen	Change of exchange rate, change of suppliers	1	6.285.000	\$ 1.632
			<b>\$ 222.070.000</b>	<b>\$ 57.681</b>

### SUSTAINABILITY:

Within the project, agreements will be made with institutions for the proper use of donated teaching equipment through audits and learning results, number of young people impacted, improvement of academic performance, support for events where students and teachers show their results, such as :

- More inclusive educational environment with good academic performance
- Results of new methods to solve problems through creativity and skills to manage conflicts more constructively.
- Reduction of the expulsion of young people for being victims of the armed conflict (Consumption, drug sales, social incorporation, family problems)
- An annual technological capabilities fair in the city, where the city's EIs participate with the seedbeds that were sponsored in the project.
- Participation of teachers and their student groups in national or international technological events, such as the Ondas program or excursions to NASA
- Articulation of the project to the training of each institution through article 14 of the law of law 115 of 1994, as a transversal project and labor skills in the institution.

**IS THE COMMUNITY INVOLVED? DESCRIBE THE ROLE OF THE LOCAL COMMUNITY IN THE IMPLEMENTATION AND CONTINUITY OF THE PROJECT.**

<b>Local actors in the Local Community</b>	<b>Role</b>
Young students belonging to STEM research hotbeds	They are vulnerable young people from public I.E in Science, Technology, Engineering and Mathematics (STEM) areas with analysis capabilities and propose technological solutions to problems of peace and prosperity of the community.
Expert teachers from educational institutions	They are teachers from educational institutions who donate their time and knowledge during extra-class hours to train and guide young people.
Family, local community, professionals from C.R Cartago Pedro Morales Pino.	They are relatives and neighbors of vulnerable young people who will be supported by professionals in psychology, Paz, C.R., technology experts and university professors, who coordinate and support STEM seedbeds.
Local businessmen	They are entrepreneurs in the technology sector who support STEM research hotbeds with financial resources and provide work practices to young people who are already university students or adults.

#### **FINANCING OF THE PROJECT**

*value of the project*

USD\$ 57.681

Cost of the Project	USD \$	57.681
Local Club	USD\$	1.481
International Club/s	USD\$	12.640
Distrito 4281	USD\$	200
International District/s	USD\$	24.000
Rotary Foundation	USD	19.360

**Thanks to your support, our club will help the community by solving its most important needs. We appreciate the analysis of this project. For more information contact:**

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