


The promotion, encouragement and prepare Teachers-Judge in extracurricular activities in the “Low Carbon Strategy Project” to support National STEAM Development Foundation (FUNDESTTEAM) in the Regional hub for educational robotics



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**Organisation:** FUNDESTEAM | Organizing Committee World Robot Olympiad (WRO) Panama 2023



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## **Project Outline**

Panama to be host country 2023: In order to strengthen skills and competencies, the preparation begins in May 2022; and elective participation in the high-level table of the headquarters of the World Robotics Olympics to be held from 7 to 9 November 2023. This project achieves World Robot Olympiad Association is pleased to announce, that Panama has been chosen as host of the International Final 2023.

The announcement was made after a video conference, where the First Lady of Panama, Yazmín Colón de Cortizo, the Minister of Education Maruja Gorday de Villalobos and National Organizer, President of FUNDESTEAM Marvin Castillo, made the final presentation for the candidacy in front of the Board of Directors of the WRO Association.

Moreover, the growing concentration of population in urban areas increases social conflict saturated road systems and public infrastructure, increasing the ecological footprint of the Panamanians, which in turn promotes an aggressive human intervention on the environment to suit production practices and consumption in Panama.

It should highlight the issue of National Economy, which has shown a significant growth in its Gross Domestic Product (GDP) in the period 2003-2008, increasing from 4.2% in 2003 to 9.2% in 2008. (Panama en Cifras, 2008)

Although, Panama has become the most cosmopolitan city in Central America but suffers from many problems such as large cities in the world. Among those include: air pollution, noise problems, deterioration and decline of trees urban heat island effect (product of the high concentration of concrete surfaces, concrete and pavement), which results in the use of systems air conditioning inside the buildings at low temperatures in negative relation to our average temperature, increased energy consumption and problems with urban waste disposal.

### **Regional hub for educational robotics**

Now the work begins to prepare for the more than 5,000 international visitors, who will be attending the International Final in 2023, including a high participation of Latin American countries. Panama is eager to consolidate its position as a regional hub in the field of educational robotics, contributing to the achievement of the Sustainable Development Goals (SDG)

### **Higher Education**

Experimental or experiential in the educational system in relation to the implementation of innovative topics with the theme of Sustainable Development policy in the field of STEAM. Understanding of the working schemes of research interest groups which develop advanced modeling platforms.



## **Attendance to induction**

- Organizing Committee World Robot Olympiad (WRO)
- Energy Solidarity support partner
- Teacher-Judges assistance
- Corporate analyst

## **Descriptive transcription of activities**

- Action for Sustainable Development Goals Campaign  
To get people involved in taking action
- Regional Olympics  
In the decentralized field program of the Regional Olympiads
- National Olympics  
In the field of National Olympiad for international qualification
- World Olympics  
Route on the international competition
- Table made up of different State institutions for the coordination of this important event  
Keynote lectures given by distinguished university professors: Institutional Objectives.  
Seminar on Statistical Methods Applied to Education  
English Certification: drafting of types of rubrics for qualification
- WRO-Association  
Applicable categories each with their own characteristics: LEGO based challenges and / or  
Free choice technology  
Tentative results  
Final results  
Drafting of official public information



## Completion Substantiation

- The Document of Project
- Defense Rights
- Basic Example of a Dissertation Table of Contents

1. Introduction .....	1-
2. Literature Review .....	4-
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7. Appendices .....	20-

## Project risk

Objectives	What difficulties may occur?	What can you do in order to address them?
There is a presentation of the Document of Project on the promotion and encouragement	<ul style="list-style-type: none"><li>a. Limited interest of the public/private institutions and organizations in this sector under study.</li><li>b. Delay in delivery time for printing the final document Project on the promotion and encouragement</li><li>c. Institutional delay of the budget for the payment of the printing and presentation of the Document of Project due to the internal process of the sponsor institution.</li></ul>	<ul style="list-style-type: none"><li>a. Invitation from the highest authority, through official letter, to these organizations to participate and assist in the transfer project..</li><li>b. Maintain constant contact with the responsible persons of the printing.</li><li>c. Maintain constant contact with the responsible persons in the public and private institutions.</li></ul>



## Reference Statement

1. [Panama to be host country 2023 - WRO Association \(wro-association.org\)](https://wro-association.org/)
2. [Presidente Cortizo Cohen lanza oficialmente las Olimpiadas Mundiales de Robótica 2023 \(presidencia.gob.pa\)](https://presidencia.gob.pa/)
3. [Training - United Nations SDG Action Campaign](#)
4. [Categories - WRO Association \(wro-association.org\)](https://wro-association.org/)
5. Scheme of support: [Energy Solidarity in Latin America: generating inclusive knowledge and governance to address energy vulnerability and energy systems resilience - University of Birmingham](#)