



ASOCIAȚIA  SUPPORT



skills

## Who are we?

The "SUPOORT REGIUNEA CENTRU"

NGO from Brasov Country, Romania

Aims to promote and develop entrepreneurial and technological education among young people.

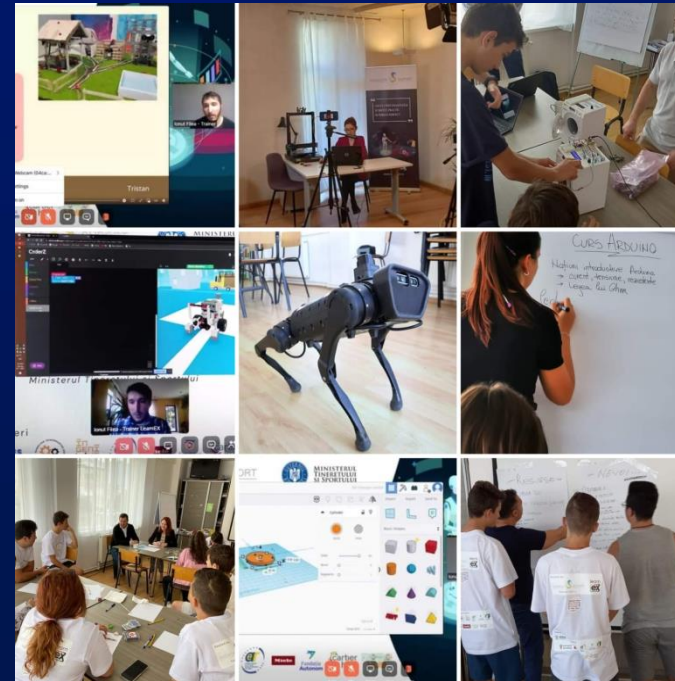
Create a community in the field, allowing the exchange of knowledge between young people and specialists, between the academic environment and the corporate environment from Romania and abroad.







- Robotics
- Entrepreneurship
- Print 3 D
- Programs
- Modeling and design
- 3D Printing







# About our project: “Digital Nerds Contest 2022”





## About our project: “World ROBOT OLYMPIAD/ESA Education”



We participated at “World ROBOT OLYMPIAD” (WRO) ROMANIA in the years 2018, 2019, 2021, 2022.

We organised “Summer School of Robotics” in the years 2018, 2019, 2020. We organised World ROBOT OLYMPIAD ROMANIA 2019 – Regional Brasov” Educational Robotics Competition, in partnership with THE ASSOCIATION OF EDUCATIONAL ROBOTICS AND SCIENCE WRO, More than 300 participated in this event: students, teachers, parents and people from the private business environment participated.

In April 2022 we participated at the competition “MOON CAMP” organised by “ESA - European Space Agency ESA Education, in partnership with the Airbus Foundation and Autodesk Education”, with one team (12 years ) with Project “Living solutions on the Moon” (modeling and design and 3D printing). This project is very practical and sustainable, including agriculture and energy resources.





## About our project: “AvGeek - Aerospace Challenge -October 2022”



The main objective of this project is to create a link between generations by organizing an annual national competition (online) called "AvGeek- Aerospace Challenge“, addressed to young people, with the theme "Aerospace Industry“ in the following fields: aeromodelling, 3D modeling, 3D printing and programming. The conference addresses the proposed theme, together with the representative stands of the participating companies/institutions to establish new links between specialists and aspirants to a career in the aerospace or related fields.

- October 2022-







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# Sustainability in Education

by applying

## Design Thinking Methodology

having peer learning as a teaching method



In the context of the pandemic crisis - finding solutions in a very short time to the existential problems related to human life - proved to be a necessity.

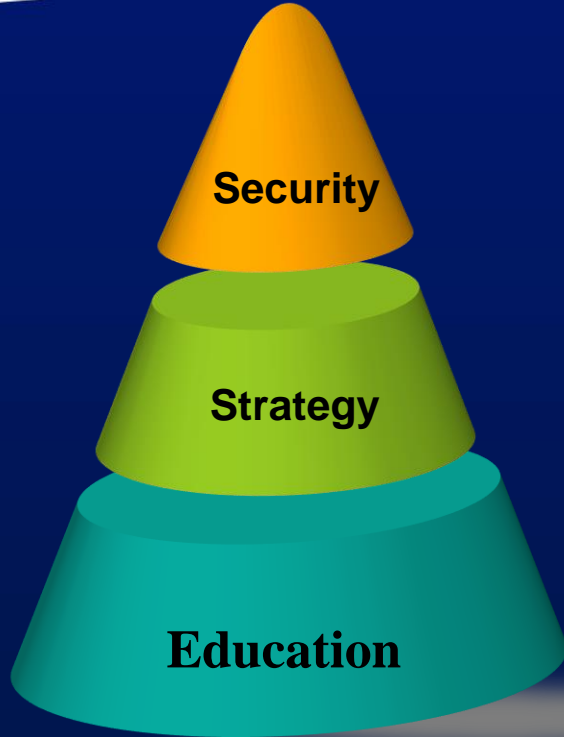
During that period, in addition to the measures taken by the authorities, NGOs together with Higher Education Institutions, various technological education clubs and private companies have mobilized to support doctors and hospital assistants (ATI, UPU etc.) making various protective equipment necessary to fight against COVID-19.





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## Project purpose



Foreplay  
the future  
professional

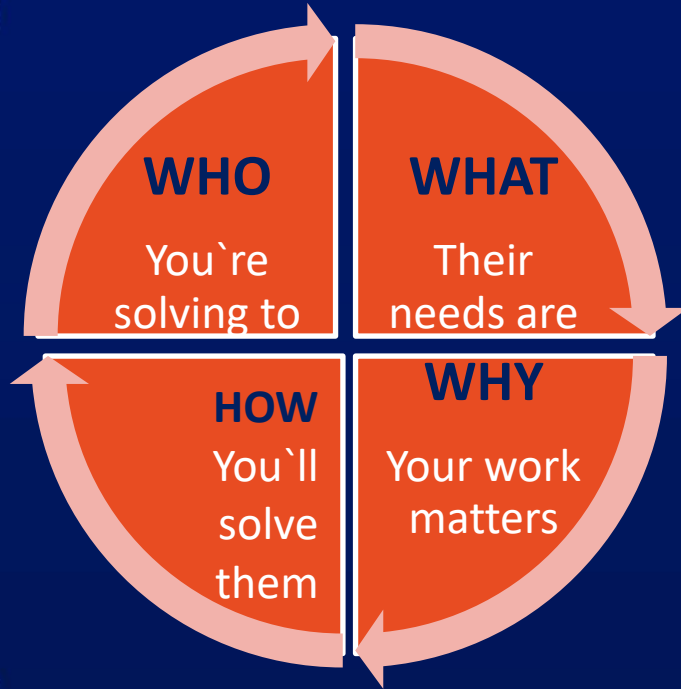
Foreplay the  
future  
professional

- University education
- Pre-university education
- Secondary education
- Primary education

**All fields**

Peer - learning

# Design Thinking



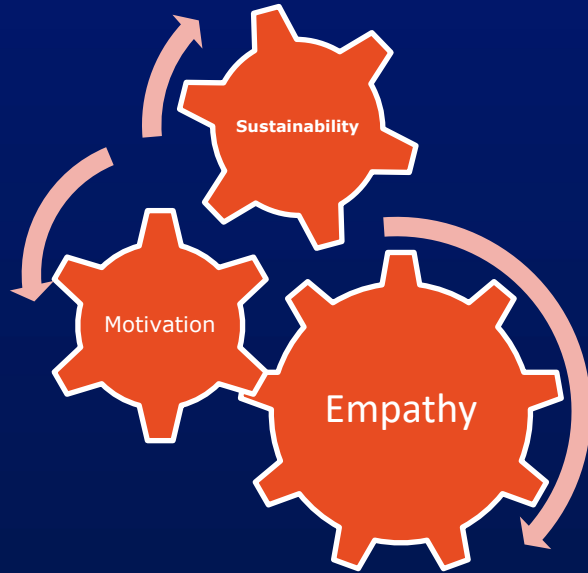
In this sense, it is necessary to apply the proposed new "design thinking" methodology for making decisions within groups, in order to find the best solutions and to solve in real time at low cost the new problems, regardless of their nature.







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When we talk about sustainability through education we are talking about generations that can be taught to think and act sustainable.

In a sustainable economy, the opportunity to achieve a product or service is given primarily by its utility in the market.

Beyond the fact that this product/service is made with the available resources, the producer has the responsibility for what is created, to protect the resources for the next generations.

In achieving sustainability through education and solving its problems the empathy intervenes. The empathy is the ability wearer born and which gives us the motivation to do something and to be in solidarity with the students to achieve a goal.

All these lead to the need to educate young generations who are empathetic enough to understand in detail the needs of the society without affect future generations.



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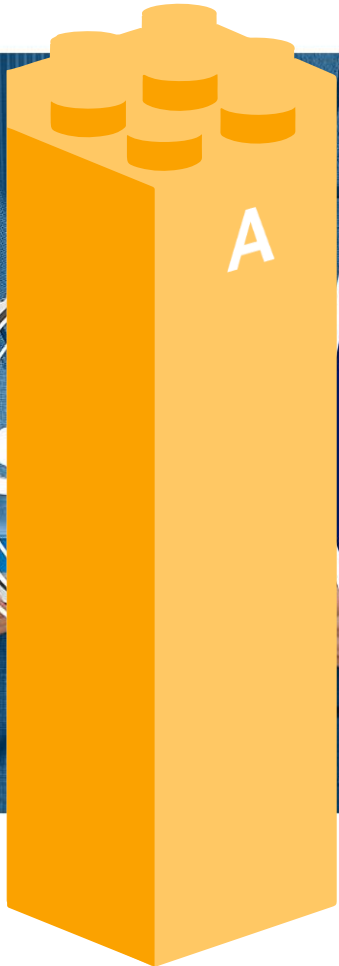
**How important is it to educate the younger generations to think sustainable?**

- We are heading for a period of natural resources crisis combined with natural disasters caused by climate change and humanitarian crises.
- Understanding the needs of today's world will help us to find solutions to address socio-human, technological, medical and economic problems.

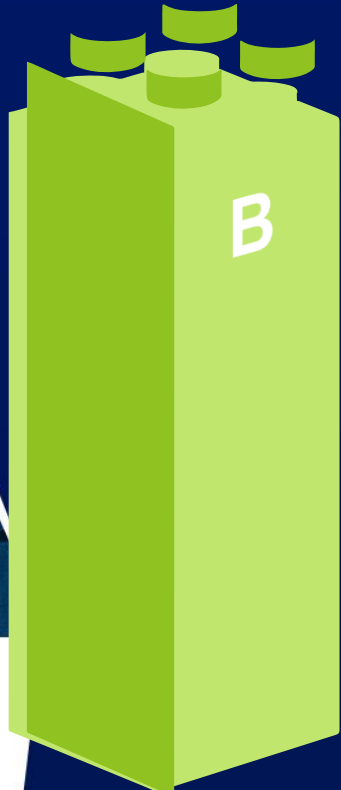


# Results

**01** Functional future generations children/young people foreshadowing their future

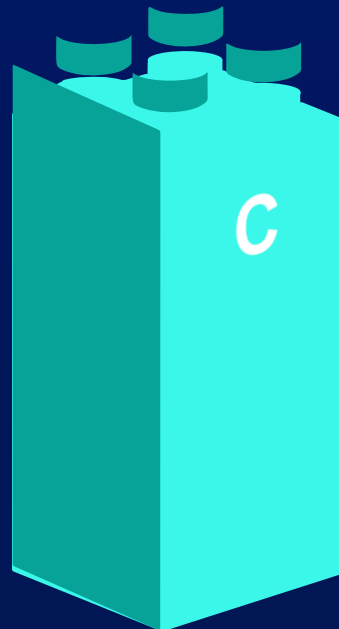


**02** Generate ideas/projects that aim to improve quality of life



Inter-institutional communication

**03**



**04** Transfer of ideas & technologies



**Results obtained educating the young generation,  
from the youngest ages, through the design thinking methodology, having peer  
learning as method teaching**



- **Attitude:** Communication and critical thinking, The development of cognitive and emotional processes, Initiative and motor development of children
- **Actions taken:** Initiating children in the world of programming and in the field of robotics with the construction and establishment of basic techniques in the field of robotics; Improving skills related to the use of **STEAM technology**, developing ingenuity and strengthening creativity; Development of creativity and teamwork.
- **Results observed** in the level of motivation and understanding of some concept: Development of common projects using educational materials Mindstorms; Development of creativity and teamwork; Invention of other robots, beyond those included in the Mindstorms educational materials, modeling and design and 3D printing;





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## Human Resource

- We are in a continuous process of change in all areas.
- It is necessary to develop new strategies, in the area of recruitment and training.
- Regardless of the technological level and innovation in finding renewable resources the quality of human resources remains a significant factor in the training and efficiency.



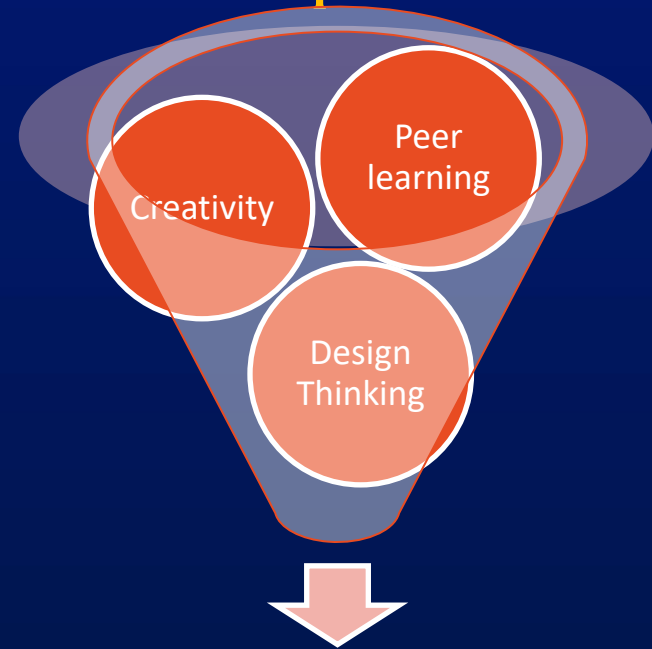


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## What methodology would be used to solve the problem?

- At a time when organizations need to fully optimize an increasingly limited budget to improve the training of their employees, three questions arise:

1. How to correctly assess the investment recovery in an employee training program?
2. How to get the most out of human resources, regardless of their position in the company?
3. How to create the human resource pool that is needed?



Creating generations that are empathetic enough to understand the need of solidarity, without affecting the resources of future generations.





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**What are the expected results?**

Continuity

Inovation

Motivated human  
resources

Adaptability of human  
resources

Developing creativity

# How to apply in practice?



COLLABORATION WITH THE PRIVATE SECTOR IN THE PROFESSIONAL TRAINING PROJECTS



COLLABORATION WITH THE ACADEMIC ENVIRONMENT FOR THE TRAINING HUMAN RESOURCE NEEDED IN INDUSTRY



COLLABORATION WITH THE MILITARY ENVIRONMENT IN PROJECTS AIMING TRAINING HUMAN RESOURCES FOR CRISIS MANAGEMENT





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- What I have presented is an invitation to collaboration!
- We presented: What do we do? How do we do it? What are we doing for?
- We offer opportunities for learning and involvement for young people who want to learn.
- Human resource training involves the know-how transfer from specialists to young people, as well as a real partnership between university, pre-university and economic environments.
- We want to highlight the educational and career opportunities, which may become a real key to success
- The partnership between the University and the Economic sectors promote new generations of success.



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We would be happy to have you by our side.

## How to find us:

[www.learnex.ro](http://www.learnex.ro)

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

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

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

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