

# Newsletter

Written by RETROSTEM team

9/11/2020

Edition 4

## RETROSTEM in progress

Dear Reader,

CNPMS (Mircea, Romania), a partner institution within the RETROSTEM project, organized in June, for a period of 3 days, training activities within the pilot course and had as target group 45 teachers from primary and secondary schools, but also high schools in Teleorman county.

The number of participants was much higher reaching 52 teachers according to enrollment. Because we wanted to promote it a lot, the Pedagogical College "Mircea Scarlat" concluded a partnership with the regional training center for teachers in the county "Casa Corpului Didactic Teleorman" to conduct the course in their training location and to use their infrastructure and logistics.

The course was a challenge for teachers who teach computer

science, chemistry, physics, math, STEM, entrepreneurship education and management through innovative content, developing a curriculum using the console, based on Raspberry Pi, to teach STEM topics by creating games Minecraft Pi to be played on the console in combination with electronic gadgets, supporting teachers in educating children in STEM courses, learning programming and developing skills in high school students.

The course was an opportunity, but also a challenge for all participating teachers who learned to assemble the console using step by step the console assembly guide, but also watching the explanatory film made for easy learning.

In addition to the assembly of the

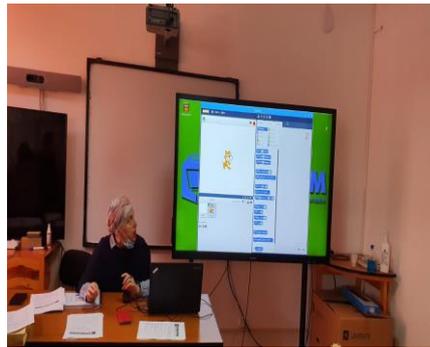
**Pilot training course and  
Multiplier Event organized  
by CNPMS from Romania  
in the RETROSTEM  
project**



*This project has been funded by the Erasmus+ Programme of the European Union.*

*The information and views set out in this publication are those of the author(s) and do not necessarily reflect the official opinion of the European Union. Neither the European Union institutions and bodies nor any person acting on their behalf may be held responsible for the use which may be made of the information contained therein.*

console, the students went through the training modules that the students encountered and some difficulties where they encountered new content and that required more study time. For in-depth study, the teachers used the learning platform where the course is also posted in Romanian.



### **MULTIPLIER EVENT ORGANIZED BY MIRCEA**

“Mircea Scarlat” National Pedagogical College, partner of the project “RETROSTEM - Fostering STEM through retrogaming consoles”, contract no. 2018-1-UK01-KA201-048152, funded by the Erasmus + program, organized in the conference room of the Teleorman Teaching Staff House, the main institution for teacher training, on 13.07.2020, the multiplication event (workshop), during which were promoted the activities implemented in the project and the intellectual products developed within the project, in the period 2018-2020.

The multiplication event was prepared in advance by preparing the event agenda, the invitation to participate, registering participants by filling in the online form provided by the project coordinator Eliza SOTIRESCU, preparing the materials that were presented at the event (powerpoint presentations, presentation of the project site <https://retrostem.eu/> and the platform <https://retrostem.erasmusplus.website/login/index.php>, where interested teachers can take the training course **"RETROSTEM -**

**Fostering STEM through retrogaming consoles"**, but also the presentation of the Erasmus program and benefits in the development of the institution, important activities that led to the realization of the intellectual products of the project.

The agenda of the event aimed at presenting all the activities carried out within the project, objectives, partners, detailed approach to intellectual products:

- IO1 RETROSTEM Console, Presentation film with RETROSTEM console assembly, Detailed Presentation of the RETROSTEM Console and the Console Guide;
- IO2 RETROSTEM Learning Motivation Environment (LME) Presentation <https://retrostem.erasmusplus.website/login/index.php>, Practical workshop and navigation through the environment
- **RETROSTEM Curriculum**
  - IO1 Modules Presentation – Module 1: Introduction to scratch 2.0
  - IO1 Modules Presentation – Module 2: Scratch GPIO (GPIO pins/receive inputs)
  - IO1 Modules Presentation – Module 3: Introduction Raspberry Pi Edition of Minecraft
  - IO1 Modules Presentation Module 4: Raspberry Pi GPIO programming using Python
  - IO1 Modules Presentation Module 5: Physical Computing

- Detailed Presentation (through the RETROSTEM Learning Motivation Environment) of all modules

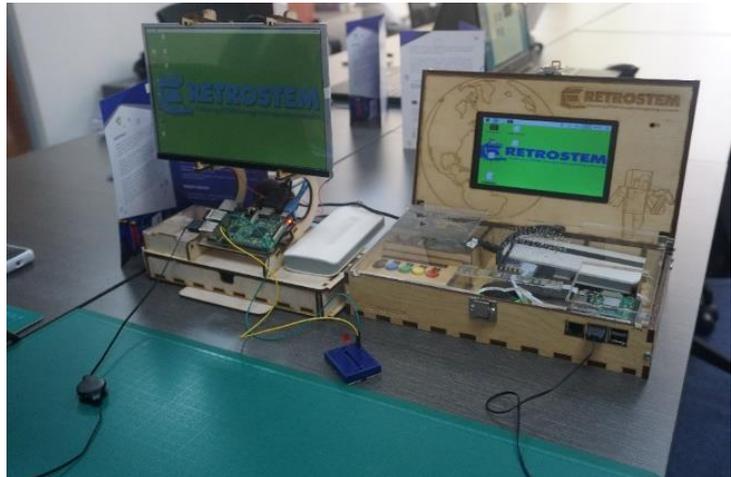


## PILOT TESTING IN CYPRUS

In the case of Cyprus, the piloting was conducted online between the 9<sup>th</sup> and 10<sup>th</sup> of June 2020. Emphasys Centre, conducted two online pilot tests, to 46 participants (mainly teachers) in total, from primary schools, Secondary schools, High schools and VET schools to present the RETROSTEM project.

During these sessions, the RETROSTEM console was presented, an introduction to Scratch 3.0 was made and how Scratch can be used to program circuits connected to a Raspberry Pi.

Overall, the seminar was met with great success. All feedback received from the participants was very positive.



Find us in:



[www.retrostem.eu](http://www.retrostem.eu)



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



<https://twitter.com/RETROSTEM1>