

## 2<sup>nd</sup> NEWSLETTER – AUGUST 2021

### **STEM Labyrinth** as a method for increasing the level of knowledge through problem solving

*Project number: 2020-1-PT01-KA201-078645*



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## ABOUT PROJECT

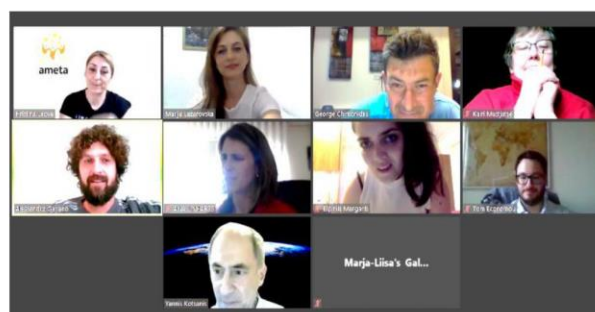
The STEM Labyrinth project, “STEM Labyrinth as a method for increasing the level of knowledge through problem solving”, is an ERASMUS+ funded project that started on 1st of November 2020 under the coordination of the Association of European Movements (ATLME), Portugal and a partnership of another 6 organizations, namely, the Learnmera Oy Finland, the Association for European education and mobility (AMETA) from North Macedonia, Enjoy Italy in Italy, the Doukas School in Greece, the Martna Põhikool in Estonia and St. George's High School in Cyprus.

With the project we would introduce a new and innovative approach for the teachers in STEM education to follow and use as additional teaching material. We will develop innovative STEM Labyrinth Method and design Mobile Application, to create a transformative educational experience for high school students. There is great potential in using mobile devices to transform how students learn by changing the traditional classroom to one that is more interactive and engaging. STEM learning is largely about designing creative solutions for real-world problems. When students learn within the context of authentic, problem-based STEM design, they can more clearly see the genuine impact of their learning.

## PROJECT PROGRESS

### STEM Labyrinth partners online meetings

Due to the Covid-19 pandemic the STEM Labyrinth partners had to adopt their meetings and work process according to the safety measures taken by all countries. So, the project continues its work between the partners through online communications. The partners had six online meetings discussing their work progress and setting their next goals. At this point we have reached our goals for the first 10 months of the project. Visit the project website to access educational useful content.



### Analysis on STEM education policies and STEM teachers' practices in partner countries

Our partnership, joined forces to conduct an analysis on STEM education policies and STEM teachers' practices in partner countries. So a larger community of primary and secondary schools, higher education institutions, the business sector, STEM providers, NGOs, local communities and other related institutions in all partner countries were involved in conducting Questionnaires. Within the partnership, we administered questionnaires to teachers, educators, administrators, and policy makers to get informed of the level of implementation of STEM activities in each of the partner countries' education systems. We received more than 140 responses to the questions contained in the questionnaire. We had positive feedback on the implementation of the questionnaires by all stakeholders with the questionnaire. With that we managed to make a quality analysis on STEM education policies and STEM teachers' practices in partner countries.

### Creation of STEM community map

The partners in the consortium have implemented the Survey as a part of an analysis for creation of a STEM community map (communication strategies for finding partners and supporters and creation of a database with the STEM community) within the project STEM Labyrinth. The Survey was addressed to Schools, Universities, STEM associations, Business society, Higher education community, State boards of education and education agencies, Museums, NGOs etc., which have good practices related to STEM education.

The STEM community map is not designed only to transfer relevant knowledge, best practices, successful practicalities, and expected social norms but also to share, embed, and make easily accessible those best practices and lessons learned within the generations of STEM stakeholders in your community. So implementation of these activities in the partner countries contributed to the creation of a STEM community map with around 50 organizations related with STEM education.



# TOOLKIT PROMOTING STEM EDUCATION

Toolkit promoting STEM Education provides core messages, materials, and communications strategies to help schools and policy makers overcome such challenges and build strong support for STEM education initiatives. This Toolkit contain a range of implementation tools, from conducted analysis on STEM education policies and STEM teachers' practices in partner countries, finding partners strategies to support for carrying out a needs assessment when developing own STEM program. There is also implementation advice how to choose a curriculum, design and adapt interactive lesson plans – including already prepared with our proposal. Designed to be free and friendly this Toolkit is accessible to all students, teachers, educational community.



<https://stemlabyrinth.com/toolkit/>

The primary target audience include: teachers in the STEM classroom and for afterschool activities, STEM administrators, school authorities, Higher education community and Local policymakers, State boards of education and education agencies and Business community as a secondary audiences. This toolkit, developed by our partnership, is a how-to guide for anyone interested in organizing high quality STEM activities for youth at a STEM center or corner (featuring occasional activities) in their community.

## PARTNERS



[www.stemlabyrinth.com](http://www.stemlabyrinth.com)



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