



STEM-xhibitions

Aims to achieve creation of the new pedagogical methodology for the teaching & learning of STEM subjects in secondary schools in the EU



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Project Updates

- Impact & Advisory Board established
- Local Pilot Testing activity completed by the project partners
- STEM Virtual Toolkit has been developed and translated in all partner languages
- Tutorial video for the Virtual Toolkit developed
- Conducted school field trips to Local STEM Museums
- Research completed on relevant sources and references
- Phygital Exhibition Implementation Guide has been completed

Newsletter Highlights

I&A Board

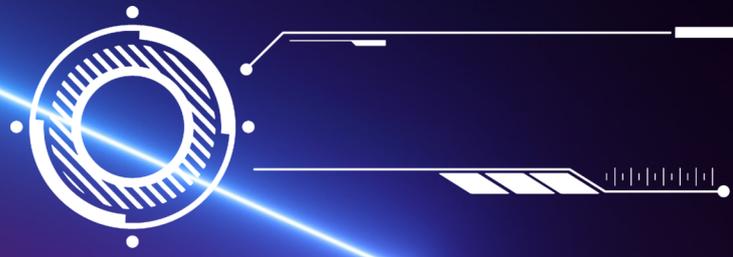
The Project's Impact & Advisory Board has been established. The Board is composed of representatives from relevant stakeholder groups and associated partners. IA Board member selection was guided by an open process of gathering recommendations from all partners, with critical review and confirmation led by the project coordinator.

Pilot Testing

The Pilot Testing of the Toolkit has been completed. It was performed with teachers to provide feedback for improvements and identify gaps or errors in the content developed. This produced a coherent report (per partner) synthesising all the data that was subsequently used to finalise the Alpha Version of the STEM Virtual Toolkit.



The Virtual Toolkit



We have completed the development of the STEM Virtual Toolkit which is addressed to sec. school STEM teachers and students and provides theoretical knowledge on STEM-based topics in an interactive and integrated way as well as on considering RRI within each of the specific topics. STEM teachers & students can be educated in the following 3 Modules: Life Sciences Module, AI/ML Module, and Environmental Science Module. It can be found on the Resources of the Project website, already translated in all partner languages. A tutorial video for the Virtual Toolkit has also been developed and can be found on our YouTube channel.

The STEM Virtual Toolkit is expected to replace the obsolete & fragmented methods of teaching STEM subjects, and to increase teacher's understanding of integrated STEM subjects & equip them with knowledge in the fields of the topics covered.



Research

The desk research to compile references, relevant articles, papers, and websites for the Phygital Exhibition Implementation Guide, has been completed. This produced a report from each partner and lists of data.

The Phygital Exhibition Implementation Guide

The Phygital Exhibition Implementation Guide has been completed. The Guide includes theories & concepts around curation and organisation of exhibition spaces as well as a step-by-step manual for the implementation of learning exhibitions from scratch. Furthermore, it details the creation of phygital exhibitions, providing teachers & students with the tools and technical advice they will need to bring them to life, and to cultivate transversal skills in students through the collaborative planning and creation of the exhibitions.



Field trips to STEM Museums

Partner Schools' field trips took place to local Science/STEM Museum with students to establish a direct contact with art for science/STEM learning. The partners developed reports synthesising all the data collected from students on their experience, thoughts and aspects to incorporate in their own exhibitions.





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