

# WELCOME TO 3RD STEM NEWSLETTER

Erasmus+ KA2: “Clean, green future through STEM-sports clubs”

Call 2020  
Round 1 KA2 -  
Cooperation for  
innovation and the  
exchange  
of good practices

KA202 - Strategic  
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## General aspects

Organised between 26-27 September 2022, the Piarist School of Kecskemét hosted the third international partner meeting of the STEM project Clean, green future through STEM-sport clubs.

During the two days, in addition to reviewing the activities carried out so far in the project - presenting the different clubs of the partners, sharing difficulties and good experiences, discussing questions and answers - the next tasks and workflows were discussed.

Other topics discussed also featured the development of a more user-friendly project website, including an online platform for the clubs, as well as the development of a social networking site, the discussion of the workflow for the preparation of e-learning tools, and finally the details of the participation in the Verona Science Festival in November. On the second day of the partner meeting, the participants visited the Öveges Lab, where they were divided into teams and could try out different experiments on water themselves.



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### *Croatia (Srednaja Skola Dugo Selo)*

The school has some clubs, but after Berlin it was reduced to a single organization called STEM Clubs. The reason for this is to be able to cooperate more and to carry out some projects and workshops together. In addition, the school has workshops and classes with external teachers and trainers. Students participated in many different fairs to show their work and gain new ideas and connections. Collaboration was made with the "Savjet Mladih" civil association working with young people.

### *Germany (solaris Förderzentrum für Jugend und Umwelt gGmbH Sachsen)*

A short presentation was made on Gdrive. Flashlight on participation in STEM events/competitions of working STEM clubs (STEM competitions, professional orientation events - some dedicated to girls). **solaris** FZU wants to announce STEM competitions with the cooperation of companies in the sector. Additional new STEM activity: Adapting existing sports structures to provide better visibility for STEM opportunities.

In September 2022, a new robotics STEM club started. Participants develop and program their own little robots over a longer period of time to participate in competitions such as WRO (World Robot Olympiad), junior researchers competition or local competitions (RoboSax). There will be activities for children under 12 using Ozobot and for children over 12 using ArduinoBot or RaspiBot.





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### **World Robot Olympiad in Chemnitz, Germany**

The German level of the STEM competition "World Robot Olympiad (WRO)" took place in Chemnitz on 17 and 18 September 2022 (for more information, see here: <https://www.worldrobotolympiad.de/saison-2022/deutschlandfinale>).

Germany's best teams presented their achievements in the fields of robotics, technology and teamwork. 108 teams competed against each other. Teams from Chemnitz also qualified for the German final. Their excellent performance will now be honoured with a special highlight. Two teams will travel together with organizers from solaris Förderzentrum für Jugend und Umwelt gGmbH to a STEM training course in Verona (Italy). It takes place as part of the "STEM-sport clubs" project from November 21 to 25, 2022. The innovation agency t2i from Treviso has invited around 50 young people from Europe to the topic "Innovation". The project is funded by the ERASMUS+ program of the European union.



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### Czech Republic (South Bohemia)

In June, the "Adventure with Techniques" will be held: usually 5,000 children participate. A one-day event with schools, parents, students was held at the exhibition site in Budweis, organized by the Chamber of Commerce itself.



### Italy

Shared resources: *Stem-Club Space13 co-design tools*

The t2i StemClub, Innovation Lab Space13, has now been enriched with a new tool: **GitHub platform**. This virtual container collects the materials created during the co-design workshops, the kick offs and the Lab vans, as well as the seminars and workshops organized up to now. You could find: infographics, the web and APK APPs, documents, templates, video registrations of activities and more. The platform will be progressively updated.

The materials are available to everyone: they can be used, modified and shared freely and for free. The basis of the Innovation Lab Space13 project are open data and the creation of freely accessible resources for all citizens. The contents on the GitHub platform are a



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further step towards the full realization of the free of charge, open minded and visionary collaboration and sharing of resources and opportunities to which the project aspires.

Digital Gyms operators, experts and enthusiasts will be able to contribute to expanding the network of widespread knowledge in the digital environment, so as to make innovation and technology transfer a shared heritage.

For more information see: <https://www.space13.it/>



### *Czech Republic (Pardubice)*

5 new clubs at the school since the beginning of the process. 2 "old fashioned" (biology, chemistry), this club can survive. Two "escape games clubs" linked to natural science topics. Faced with the lack of motivation of teachers/students, these clubs have now come to a standstill. The teacher of 1 club left for maternity leave, but the students took over sustainably with the support of the teachers. Defining an umbrella structure for existing clubs to make the whole process more sustainable is a new goal. Teachers are paid for STEM club work based on project resources. With the experience of the last two years, new ideas can be developed in a more sustainable way.

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### Norway

Following the decision to halt the STEM club project, most activities have been halted and some are now thought to need to be restarted. New idea: "Newton rooms" This is an idea to suppress new STEM activities. First Lego league activities in the neighborhood high school may be linked/collaborative with STEM club activities. Such a STEM club or some of the events may be held at Odda vidaregåande skule in the future and may be more visible and accessible to the entire community. A reboot of STEM club activities, or a new approach, is likely to be necessary for the rest of the project.

### Hungary

For the 7th time since 2015, our school has been associated with the national **Researchers' Night programme**. This year, on **30th September**, we welcomed children and adults to 8 locations throughout the evening. Drawings made by students of our school were on display in several places inside the institution.

During the evening there was the opportunity to conduct different experiments in the Öveges Student Lab, where participants successfully freed colors from their captivity and also gained insight into the workings of volcanoes with simple experiments that can be done at home. Visitors with an interest in technology were able to learn how the 3D printer and Microbit work, as well as operate EV3 robots using a simple command line.

This was the second time this year that the escape room was organized, and this time it was another great success. Two families and a father-daughter team competed against the clock, while they also had to show off their high school math skills in one or two tasks. In the end, everyone was lucky to escape!



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It was the third time that we joined the series of **ErasmusDays** on **13th October 2022** when students were in the focus of our online conference. The online meeting included 20 presentations in English. Students from Polish, Argentinean, Spanish, Slovakian and Hungarian Piarist schools shared their experiences or presented a topic they found interesting and important. We heard presentations on symbiosis in our bodies, robots, as well as Princess Diana, the present of Africa, the cuisine or school systems of different schools, Basque and Polish culture, and the Erasmus project mobilities of individual students. After the presentations, participants had the opportunity to ask questions to the speakers. The online coordination of the event was also left to the students, with Hungarian and Argentinean students doing the lion's share of the work, which they successfully managed.

