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	<p>Key Action 2 „Robotics ON” Strategic Partnership</p>	
<p>Newsletter no 4</p>		

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„Robotics ON” Project

Strategic Partnership supporting innovation
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Key Action 2
„Robotics ON” Strategic Partnership



Newsletter no 4

PARTNERS:

P1. Colegiul Național "Constantin Carabella"

Târgoviște, ROMANIA

website: www.carabella.ro

P2. Anyksciu Jono Biliuno gimnazija

Anykščiai, LITHUANIA

website: www.bilngimn.lt

P3. Budapesti Gépészeti Szakképzési Centrum Szily Kálmán Műszaki Szakgimnáziuma, Szakközépiskolája és Kollégiuma

Budapest, HUNGARY

website: <http://www.szily.hu>

P4. Istituto Istruzione Superiore A.Volta

Frosinone, ITALY

website: www.voltafr.gov.it

P5. S.C. SKA NET SRL

Bucharest, ROMANIA

website: www.itadviser.ro

P6. IMPLEMENT 24SOFTWARE SRL

Bucharest, ROMANIA

website: www.24software.ro

TARGET GROUP:

84 students (15-18 years old), 21 from each school, students interested in personal development, using ICT in the design and creation of robots, activities that will stimulate and increase the chances of employment at the right time.

OBJECTIVES:

1. Developing digital and entrepreneurial skills relevant to personal development and career.
2. Increasing the autonomy in terms of personal and professional development of the 84 students in Robotics Clubs, at least 32 of them competitive in programming / robotics.
3. Developing the capabilities to adapt, promote and exploit digital technologies by creating a robot, in each partner school, which solves a problem identified at school level.



Key Action 2
„Robotics ON” Strategic Partnership



Newsletter no 4

PROJECT ACTIVITIES

September 2018- April 2019

M2 Second Transnational Meeting- Teacher mobility 24-26 September 2018

This event brought together teachers, project coordinators, headmasters of partner schools and other representatives. Event got place in Frosinone, Italy at Istituto Istruzione Superiore Alessandro Volta (P4). Each partner presented by two people. From P3 Gergely Dallos and Erika Bodnár went to represent the school. **First day** the partners discuss about monthly reports and timesheets, made conclusions of monitoring, also talk about what were the achievements of project in that stage. The attendants talk about Robotics Clubs activities, occurred problems and solutions. Teodora Popa made dissemination about project results inside and outside the partnership. Team cross-checked about budget absorption in all budget category, made budget summary files. **Second day** started with preliminary conclusions for the first year of project implementation. Partners made SWOT analysis about first year, Grantt Digaram for the second year implementation, list about risks and alternative solutions, dissemination schedule of the project results. **Third day** they discuss about organizing multiplier event. Led by Teodora Popa they made The Monitoring Chart for the second year of implementation. At the end the participants made satisfaction questionnaires, everybody give signature on the approved documents. All participants received certificate of attendance. In leisure times they could discover the beauty of Frosinone, taste the Italian specialities in cozy restaurants, and took a tour the nearest seaside city.





Key Action 2
„Robotics ON” Strategic Partnership



Newsletter no 4





Key Action 2
„Robotics ON” Strategic Partnership



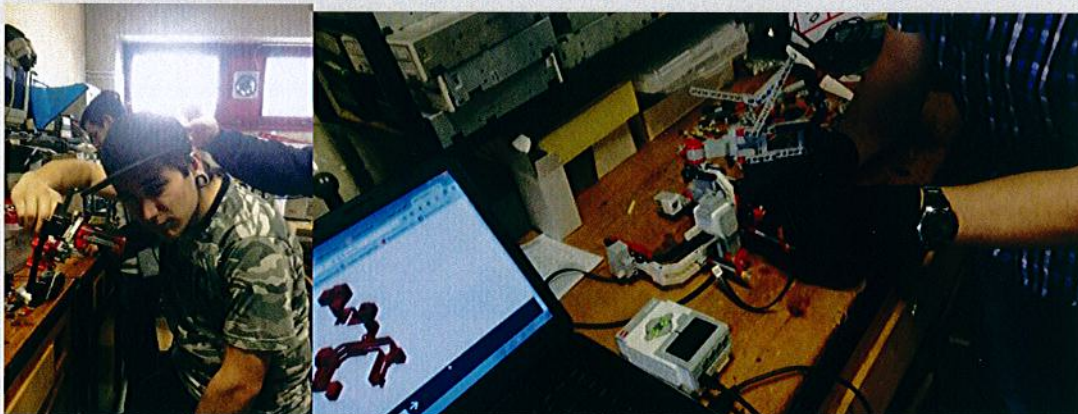
Newsletter no 4

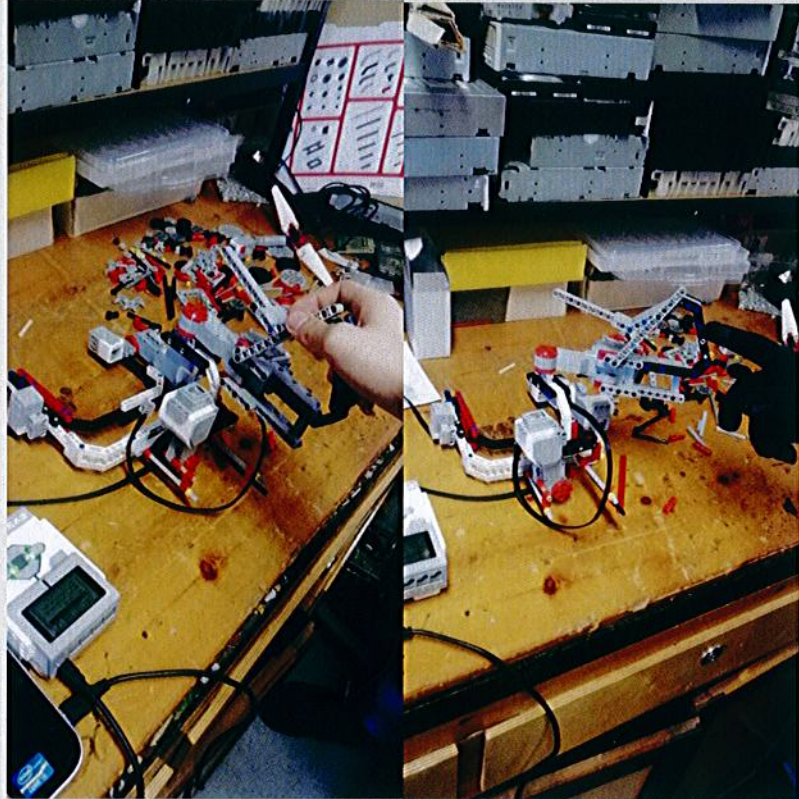
Robotics Club activity
2018 September- 2018 December

In September the Club overcome the uncertainties of previous year and search for new plans to be done in 2018/19 school year. The robots build by the end of the year were disassembled and rebuild according the summer experiences. The club main part work hard every week to solve the new problems what they find out. They design a serious crane robot what base party has been made. Because they know about December meeting programming tasks, they made several tasks and developed lego filed also.

During November the programs were being tested by the club's participants. Implementation of crane robot project has been slow down because of component shortage. They expanded by new members who have been involved by the new project plans and implementation.

Beginning of December was the Robotics On international meeting. The whole Hungarian club has been presented at beginning, than just the selected 7 students have been worked in the workshop. The club participants have been very busy with these and other leisure programs. After the meeting they get together two times before the winter brake and discuss about experiences and made new plans for January.







Key Action 2
„Robotics ON” Strategic Partnership



Newsletter no 4

**C3 The Third STEGP INTERNATIONAL MEETING in Hungary
3-7 December 2018**

The third transnational meeting (C3) of the „Robotics ON” project has been hosted by the Budapesti Gépészeti Szakképzési Centrum Szily Kálmán Műszaki Szakgimnáziuma, Szakközépiskolája és Kollégiuma (P3) and was attended by 1 Lithuanian teachers, 1 teachers from Italy, 2 teachers from Romania and 2 representatives of the private companies: IMPLEMENT 24SOFTWARE SRL in Budapest.

From Lithuanian school 7 students, 7 Romanian students and 7 Italian student were participant of this event. The host school full Robotics Club with 21 students were presented, but at main workshop only 7 students study and work: Dóczy Levente, Szendi Krisztián, Ficher Valentin Manó, Kiss Csongor, Vecsernyés András, Leveleki Bálint, Weisz András

The students with accompanying teachers arrived to Budapest Liszt Ferenc International Airport on Sunday one day before the meeting started. School headmaster Zoltán Fábíán and Gergely Dallos welcomed the groups and gave them a lift from airport to accommodations. Some of students stayed with hungarien host families, some of stayed in P3 dormitory and others stayed in hotels.

The meeting main topic was : IT programming and practicing with EV3 lego robot program and the event got place full time at host school Assembly Hall. Each day the teams get new and new little tasks / challenges to work on it, than the main trainers Mihai Toba and Teodora Popovici give points to the solutions.

First day December 3, after welcoming speech by Budapesti Gépészeti Szakképzési Centrum Szily Kálmán Műszaki Szakgimnáziuma, Szakközépiskolája és Kollégiuma headmaster Zoltán Fábíán and the project coordinator Judit Treitz, the students made presentation about Robotic Clubs activity from each partner, each country.

Learning activites started with computer environment setting up and troubleshooting leded by Mihai Toba and Teodora Popovici from Implement 24 Software (P6). The learn about pseudocode and about basic movement with robots. This time the teams from different countries remained undivided, so students work together from their own country. The trainers made a presentation and they give everyday little challenges for the student workshop groups, after a time limit, they rated with points.

After the learning activities the groups had freetime in host families and with the host students.



How to Build a Robot?



Lesson 4 Pseudocode

- Robots follow directions that people give them. They need detailed, step-by-step instructions to complete a task.
- It is a set of detailed notes that the programmer can use to write the code when they are ready.
- It is not written in any particular programming language. Pseudocode can be in part English and part code.
- Pseudocode allows the programmer to communicate his/her plan with others
- Pseudocode is detailed enough to create the actual code





Key Action 2
„Robotics ON” Strategic Partnership



Newsletter no 4



Second day December 4 started with learning about basic operations and how to move the robots. Group learn about loops and switches and algorithms led by Mihai Toba from Implement 24 Software (P6). They get ready for next days challenges what each group need to do by their own. Afternoon the host team with accompanying teachers from Hungary Klára Abai-Singer and Géza Pál help to the group to translate and show them the city. The groups discover Budapest cultural heritage, first the go to city park, where the saw Vajdahunyad Castle, Széchenyi Termal Bath, Zoo, and Hero’s Square.

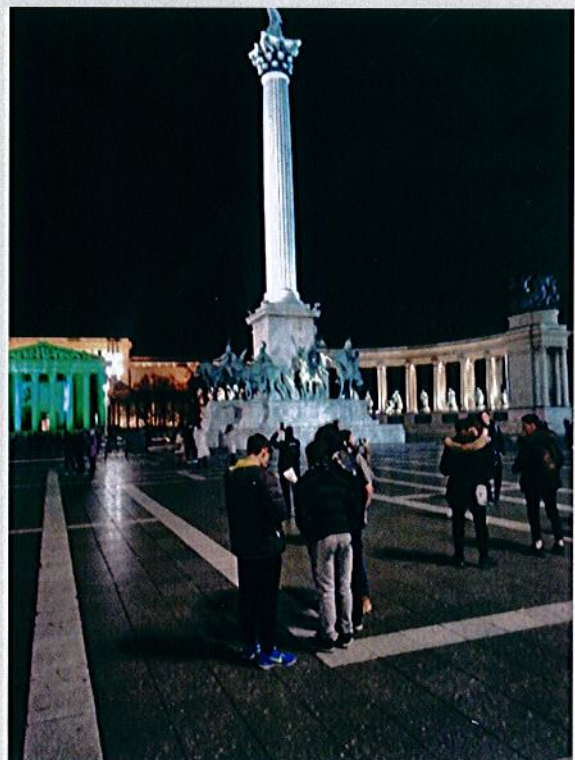




Key Action 2
„Robotics ON” Strategic Partnership



Newsletter no 4



Third day December 5 the programs start with celebrating the International Volunteer Day with making some special Christmas decorations. The student groups enjoyed the handcraft workshops. P3 host school other section designed and made these paper stuffs because that part of school profession is printing and publishing edition. In Hungary the young children wait for Santa Clause coming in December 5th evening or December 6 morning, and usually getting little gifts and sweets this day so this was a special reason to mix together this two event.

The groups study about line following and how to pick up and move objects managed by Mihai Toba and Teodora Popovici (P6). They made challenge part 1, that was following a line with their robots.

After learning activites the students went out together for sightseeing in Budapest. From Deák Ferenc square they went to see the Chain Bridge and than Buda Castel district with Matthias Church, Fisherman’s Bastion, Buda Castle. Everybody enjoyed a panoramic view of the city from the hill.



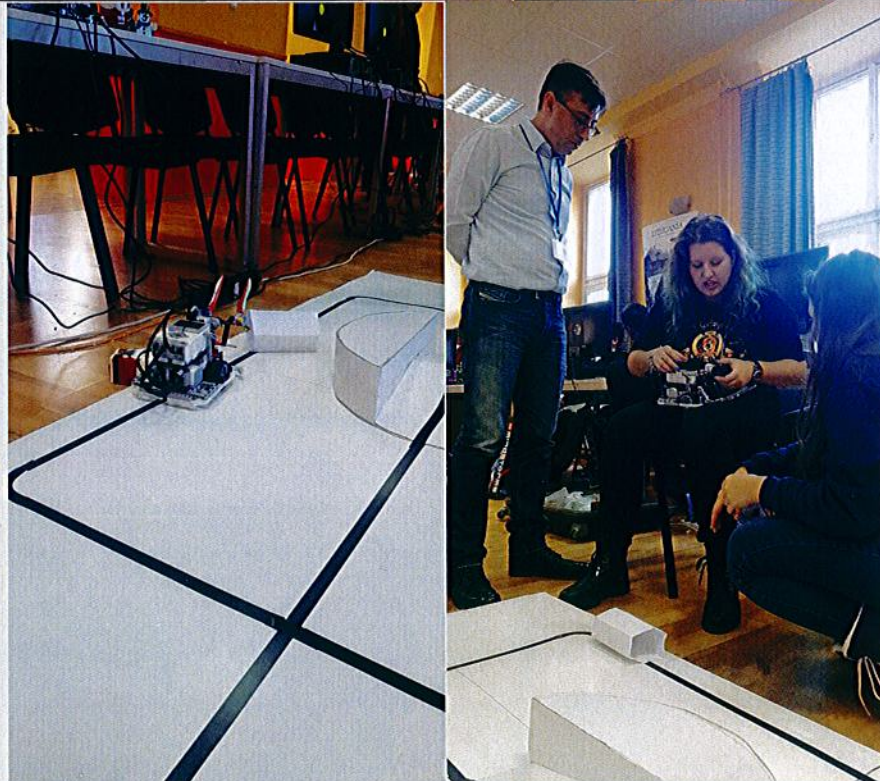


Key Action 2
„Robotics ON” Strategic Partnership



Newsletter no 4







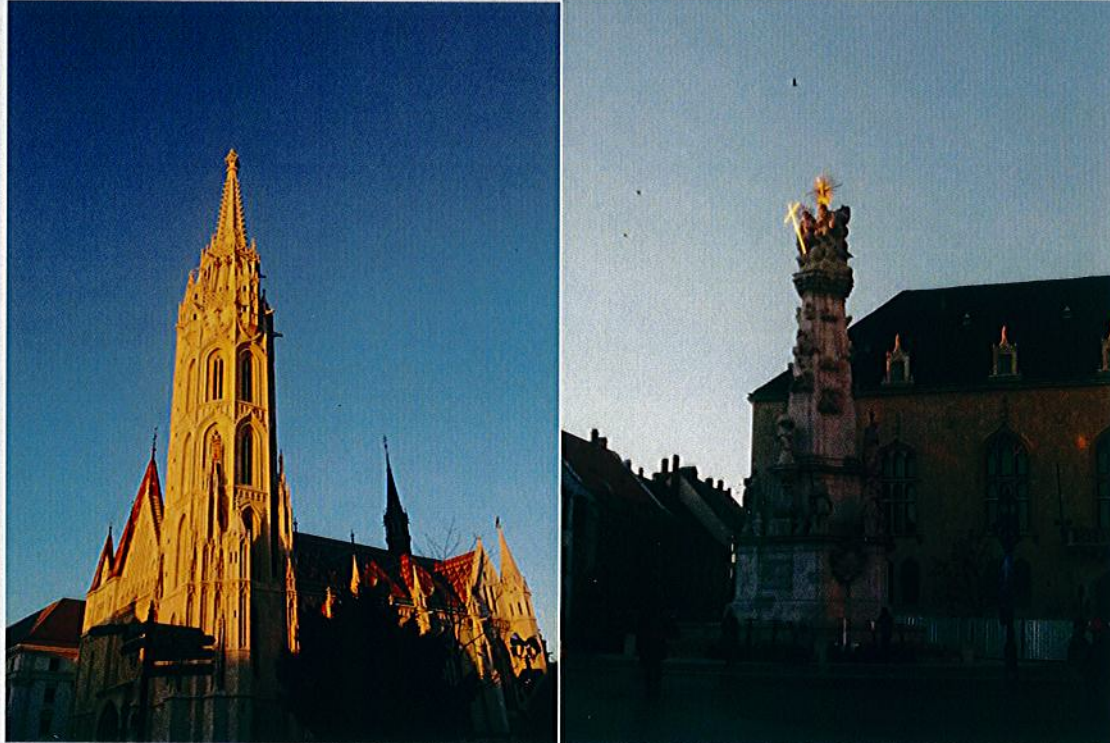


Key Action 2
„Robotics ON” Strategic Partnership



Newsletter no 4





December 6 the fourth day of meeting day started with challenge 2 what contains to design a robot what has two arm and can lift up something.

Each groups presented the solutions for the challenges with their teacher help to the others. The problems solving was unique in each partner's group. Mihai Toba and Teodora Popovic rate the groups robot's with points.

Afternoon the student groups had some freetime in the city for sightseeing and shopping in Váci Street and Christmas Market at Vörösmarty Square, than evening time the host school (P3) made a festive dinner and farewell party as a closing event.

Everybody gathered to the school's hall where they ate traditional Hungarian snacks, shared our experiences. Everybody were surprised by the school's director, who give a little concert on his electric guitar, because he plays in a rock band and every year beginning or ending he gives concert to the students.

At the end every student who attend on the meeting received Europass Mobility Certificate.

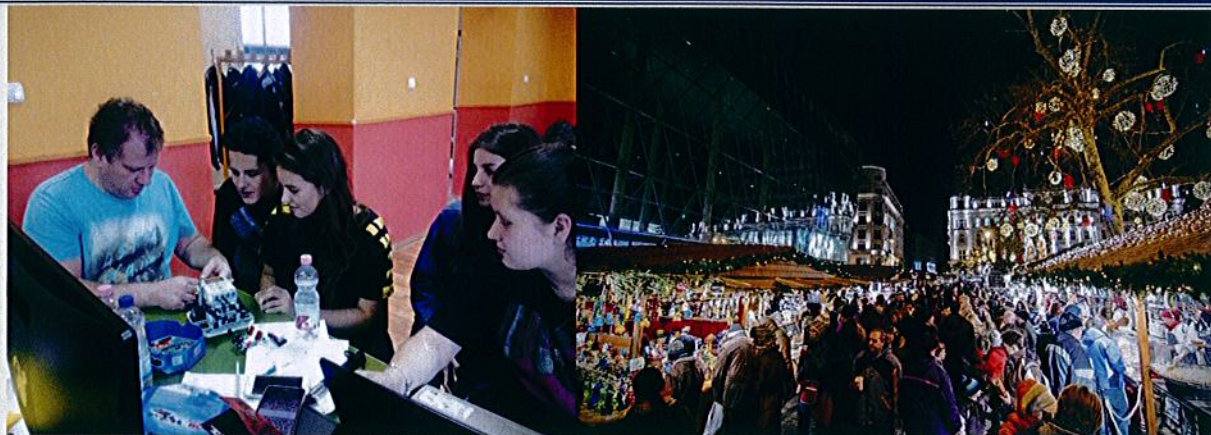


Key Action 2
„Robotics ON” Strategic Partnership



Newsletter no 4





The last day December 7 morning started with wrap-up about what they learn in the last 5 days. They made final evaluation and conclusion.

Quiz Modul 3 solved by attendants. The Robotics Clubs work have been determined for the next months. Monica Riza made assessment of the satisfaction of the participant students in C3. After the final learning activities finished, the whole group went out to Budapest and visited National Museum. They saw exhibition about Hungarian national items.

Afternoon the groups from Romania, Italy and Lithuania started to depart to fly back. All attendants seem to be satisfied with the last 5 days events.



Key Action 2
„Robotics ON” Strategic Partnership



Newsletter no 4





Key Action 2
„Robotics ON” Strategic Partnership



Newsletter no 4

**Robotics Club- Hungary (P3)
Plans for future**

From the last meeting the Club get the work more seriously, mostly everyday after the lessons they get together to discuss and solve the problems and to make lego robots and test the programs what they write. The team design 2 robots for “Night of professions” event, that organised all around Hungary 12 April 2019. All professions we can see and try there, we can talk with students and teachers on this night event. It helps to younger students, parents and everybody who is interested to choose between professions.

The group also started to design 1 more robot with 3 wheels and they are planning to take it to the next meeting in Italy.

The selected students are look forward about the Italian meeting and new challenges.



dr. Judit Treitz, P3 project coordinator
Zoltán Fábíán, headmaster of P3 school

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Key Action 2
„Robotics ON” Strategic Partnership



Newsletter no 4

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