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INVITATION TO JOIN THE Thinker Lab SKILLS COMPETITION

Tinkering Laboratories for inclusive and active learning (Thinker Lab) 2021-1-IT02-KA220-SCH-000032798 Erasmus Plus Programme

Partners

E10030008 Apro Formazione S.c.a.r.l.	Italy
E10107674 POLITEKNIKA IKASTEGIA TXORIERRI S.COOP	Spain
E10047033 Strokovni izobrazevalni center Ljubljana	Slovenia
E10111279 Göteborgs Tekniska College AB	Sweden
E10170562 Salpaus Further Education Regional Consortium	Finland

Object of the invitation

The THINKER LAB Skills Competition is a contest. It is the opportunity to participate in an experience based on the active learning of knowledge, linked to innovation and creativity.

This Skills Competition is developed within the Thinker Lab project <https://www.thinker-lab.eu>

The THINKER LAB partnership aims at increasing the range of educational opportunities by constructing learning pathways that are closely linked to collaborative learning processes, based on low cost laboratories and less dependent on technical knowledge.

THINKER LAB objectives are : to increase the social **inclusion** of students ; to increase **STEM** skills through active methodologies and working techniques based on Tinkering and on the creation and use of low-cost fablabs ; to promote **sustainability**, adopting recycled materials.

The acronym STEM (**Science**, **Technology**, **Engineering** and **Mathematics**) is a term used to refer to the science-technology disciplines and related competences and courses of study.

THINKER LAB is a open community where teachers, students and hobbyists can find and share STEM projects easily reproducible in school fablabs or in maker labs.

Who can participate

The Thinker Lab skills competition is open to all students interested in STEMs, attending courses EQF 3-4-5. Students can participate in teams of 3 to 5 people.

The constitution of teams is free and will not be imposed by the organizers.

We strongly recommend the constitution of heterogeneous teams.

This call do not discriminate against personal attitude, race, religion, sexual and political orientation. The call also adresses candidates with fewer opportunities and with specific needs.





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How to participate

The Thinker Lab skills competition will be developed in :

- SWEDEN – TORSLANDA in Training Centre at Volvo Cars on 14/03/2023
- SLOVENIA – LJUBLJANA in SIC on 20/03/2023
- SPAIN – DERIO in Politeknika Ikastegia Txorierrri on 28/03/2023
- ITALY – ALBA (CN) in Apro Formazione on 21/04/2023
- FINLAND – LAHTI in Salpaus on 10/04/2023 and 21/04/2023

The challenges proposed will be unveiled by the organizers during the opening session. There will be 5 (five) hours available to develop the ideas.

Every participating team has a virtual budget of 100 € without shipping costs and can buy components only on the e-commerce platform indicated by the organizer. It is particularly appreciated the use of as many recycled parts as possible.

At the end of the challenge participants will have to fill in the form available on the Thinker Lab website to explain the solution found and to upload a short PowerPoint presentation (max 6 slides) or a video (max 3 minutes).

Winners of the national Thinker Lab skills competition will compete in an international contest. The national winning team will have to make a video in English to present its solution, which will be shown on 10-11th May 2023 during the **Thinker Lab international skills competition** in Finland.

Furthermore, within 31st May 2023, the winning team will have to create a prototype of its solution/project. The final version of the project will be uploaded on the Thinker Lab platform <https://www.thinker-lab.eu/projects>

Evaluation of the results by the jury

The projects and developments will be judged by the members of the jury based on the following criteria:

- Originality, creativity, and innovation of proposed solutions and concepts
- Application of STEMs – number of STEMs included in the solution/project
- Budget management in use of technical parts
- Sustainability (use of recycled material, green/eco friendly material, second hand material)
- Teamwork

The jury is made up of 2 experts teachers (1 involved in Thinker Lab project and one not directly involved).

The winners authorize the organizers to publish their first and last name, the full contact details in the context of communication actions, without being able to claim any rights, and this within the confidentiality limits of the project.

Prizes

The prizes for the National winner team are :

- the publication of its solution/project on the Thinker Lab website
- a certificate
- a plate with official logo





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The prize for the international winner team is a trip to Slovenia (travel and subsistence, max 5 persons) to take part into the Thinker Lab final multiplier event with official awarding ceremony. During the event a new skill competition will be organised in the field of the Erasmus + KA1 funds.

If the Slovenian Team wins, participants will be able to choose another Country of the partnership.

Processing of personal data

The participation in the process by candidates implies their consent to the processing of their personal data, including sensitive data, by the personnel assigned to the safekeeping and storage of data and their use for the purposes of the competition procedures.

Information

For information and/or clarification about the call, please contact eu.thinkerlab@gmail.com

