# KIKS project

## Kids Inspiring Kids for STEAM

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Finland

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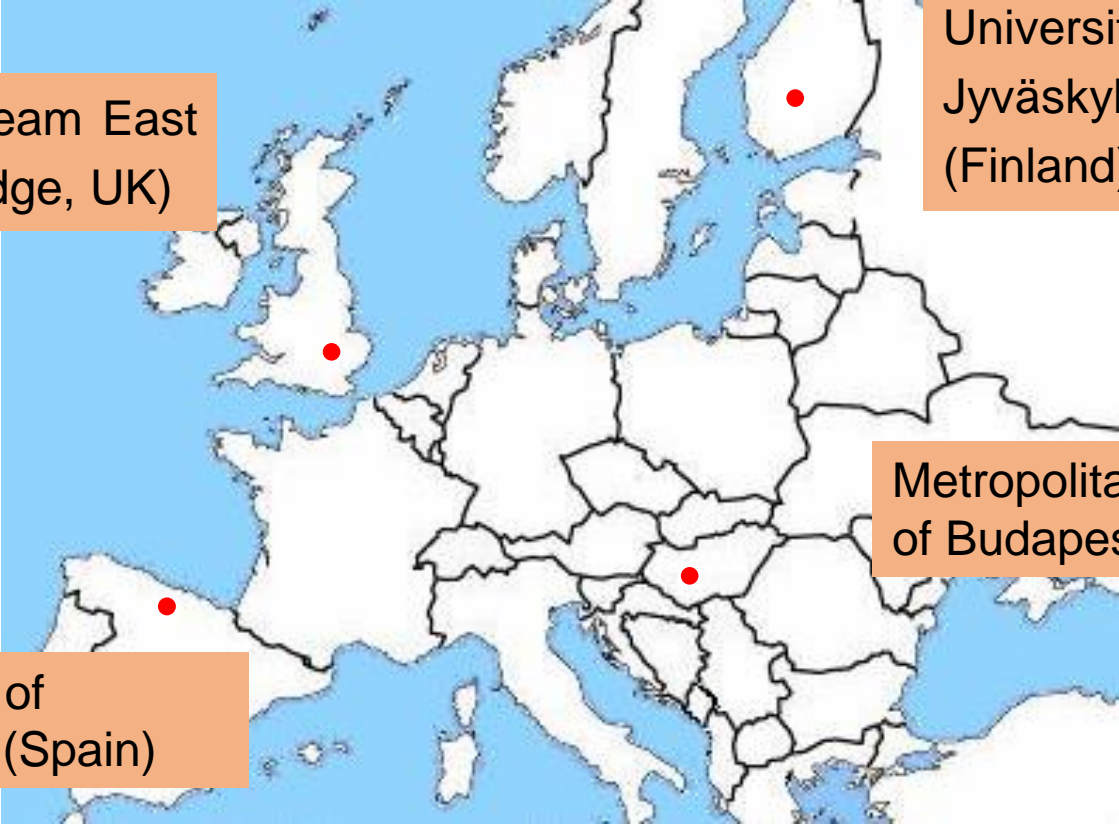
# What is KIKS?

KIKS (Kids Inspiring Kids for STEAM— Science, Technology, Engineering, Art, Mathematics ) is an European Erasmus+ Project for two years.

Four participant members:

University of Jyväskylä (Finland)

STEM Team East (Cambridge, UK)

Metropolitan University of Budapest (Hungary)

University of Cantabria (Spain)

# Objetive

The aim of the project is to promote students' interest on the STEAM areas, by developing activities and presenting them to other students locally and internationally:

➢ Promoting their creativity and motivation for learning

➢ Promoting interdisciplinary work

➢ Promoting individual and group work

➢ Using technology

➢ Fostering communication and the transfer of ideas/knowledge

# Development of Activities

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➢ **The idea emerges:**
- from a teacher (from previous experiences or from other colleagues)
- from a pupil (from her/his own ideas or from notions stimulated by her/his teacher)
- from KIKS coordinators (teachers and KIKS coordinators can share their ideas in the following Google Drive platform: link)

➢ **The idea is developed into an activity/project:**
- Type of activity: areas STEAM involved, scholar/extra-scholar activities
- Sequencing: number of sessions (free depending on teachers/teams availability)
- Number of students involved: Task distribution to team members

➢ **Students develop the activity/project and present it to their homologous**

# Products to be developed by the students

➢ **Word Document or Power Point** (English language)

  - Team presentation
  - Description, elaboration and results of the activity (e.g. wind rose, sextant)
  - Appendices with other generated files: GeoGebra, Photos, mockups, etc.

➢ **Videos** (English language)

  - Presentation of the team members, always with authorization for data dissemination (Example)
  - Presentation of the activity. Different formats can be selected (Example 1) (Example 2) (Example 3_Sextant, Example 4_wind rose)

➢ **Skype videoconferences with homologous** (English language) (Example 1)

# KIKS Support

➢ **Platforms**

  ➢ Google drive (Link):

    - Storage of information (ideas, Talks, activities)

    - Exchange of ideas among teachers/coordinators

    - Repository of documents elaborated by the teams

  ➢ YouTube  Canal (Link): Repository of videos

  ➢ Facebook(Link): Exchange of ideas and initial products

  ➢ Website (Link): Repository of final products


➢ **Support**

  ➢ Ideas for elaborating activities (google drive, e-mail, personal)
  ➢ Help in aspects related to the English language (writing, oral expression…)
  ➢ Technical support: videos edition, online connections (here some tutorials)

# Teachers' Observations

➢ **A big number of teachers want to collaborate but they do not feel confident for guiding their students on STEAM activities**

- They have not been trained on STEM activities

- They report knowledge on their own subject but they feel uncomfortable working in other subjects

- They are afraid to lead their students into failure

- Working on STEM activities is time-consuming for them

- They do not propose activities and they do not feel comfortable with the ones' we propose

➢ **Other teachers feel confident on guiding their students on STEAM activities and they propose and develop activities with their students.** However, these activities are often not STEM activities;  they related to only one area of knowledge…(Example)

# Students' Observations

➢ In the Spanish context it is difficult to involve students on STEAM activities, in particular when they are extra-curricular activities

➢ Students who are willing to participate are normally high achievement students

➢ Those who take part in STEM activities normally report that they like STEM because it is a way of connecting areas normally studied separately at school

➢ Spanish students like developing and presenting activities to others, and doing it in English is a motivation for them

# Training courses on STEM activities

➢ **We are designing teacher training courses for the following academic year**



➢ **We are proposing guided STEAM activities for them (**[tutorials](#)**)**

➢ **We are organising local and international challenges for students to interact with others who are far away**

# Many Thanks!

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