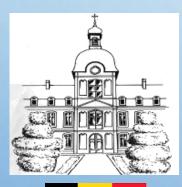


Co-funded by the Erasmus+ Programme of the European Union



SEEHING FOR ECOLOGICAL ALTERNATIVES

# Seeking for ecological Alternatives



Erasmus+ KA229 (2019 - 2022)

Institut de la Providence de Champion

Second lyceum of Kalamaria





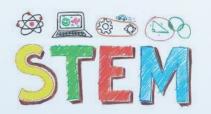
## Project objectives



SeA project is not only a STEM project but also an opportunity for our students to act and express their selves on topics about climate change. The project objectives are to:

- Record views and attitudes on climate change
- Motivate students to schedule climate change actions
- Design and construct of a submarine using 3D modeling and 3D printing
- Collaborate using e-Twinning platform
- Take digital measurements of water characteristics (temperature, pressure, clarity, etc.) with an Arduino circuit attached to the submarine
- Record data in different aquatic environments at Greece and Belgium and apply statistical process
- Draw conclusions and create climate change discussions





## **Initial Actions**

- Two surveys has been proposed to the students and their parents:
  - In Greece, <u>the survey results</u> are going to be the base of a school plan of actions about Energy saving, Recycling, Climate Change.
  - 2. In Belgium to make an <u>initial assessment</u>: what do they know about what has already been done, what should we do next?
- Twelve (12) <u>Newsletters</u> have been published
- A <u>website</u> was published
- School's ecological footprint was held in Greece
- Students recorded their family ecological footprint





## C1 LLT meeting in Namur – Jan 2020

- 17 students and 3 accompanying teachers of Second Lyceum of Kalamaria visited Institute Providence Champion in the city of Namur, from 19/1/2020 to 25/1/2020. The results of the online survey were presented and discussed. Background theory, introductory workshops, 3D modeling design and 3D printing were included into the schedule.
- Students had the chance to learn how to design and print an underwater vehicle that will be used to measure data under sea.
- Finally, both schools agreed to prepare and run common action plans about climate change.
- Students made a <u>short video</u> to disseminate the project meeting





### C2 Virtual meeting- Nov 2021

Group mixing - Awareness-raising newsletter

Online collaboration

Test your knowledge about climate change - Kahoot Quiz

Submarine construction using plain materials

Arduino Intro & workshops

Climate change Activity - Mentimeter

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#### C3 virtual meeting– Feb 2022



#### Waste collection activity

ΥΙΟΘΕΤΗΣΕ ΜΙΑ ΠΑΡΑΛΙΑ ΧΑΡΤΗΣ ΟΜΑΛΕΣ ΣΧΟΛΕΙΑ ΤΟΟΙ ΚΙΤ

WWF **Q** Αναζήτη

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ΑΚΤΗ ΚΑΛΑΜΙΤΣΑΣ

KANAMAK

🐑 ΑΝΑΖΗΤΗΣΗ ΜΕ ΜΕΤΑΚΙΝΗΣΗ ΤΟΥ ΧΑΡΤΗ

• "Adopt a beach" WWF program in Greece



## Ecological week & Waste collection activity

• "Ecol'ogic" week in Belgium











#### e-Twinning platform Collaboration





#### C4 - until June 2022

- Final test of the submarine into the water
- Data underwater measurements
- Data comparison
- Statistical analysis
- Conclusions



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## Thank you for your attention

