



# *“Technology understanding and sustainability in practice cooperation”*

## **2022/2025**

Makedonitissa B’ Primary School - Cyprus

March 2022



Smarter Europe



Greener, carbon free Europe



Connected Europe

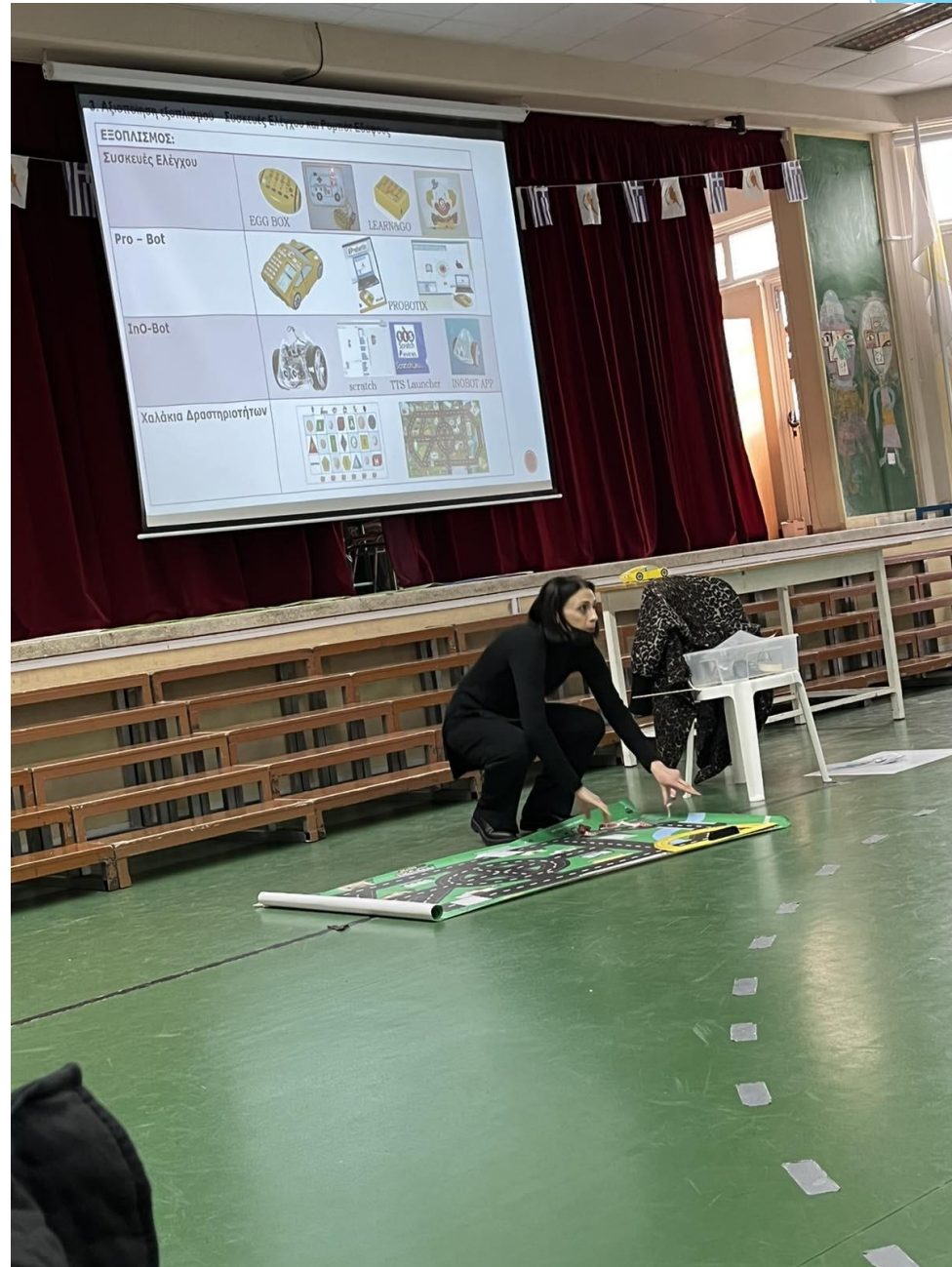
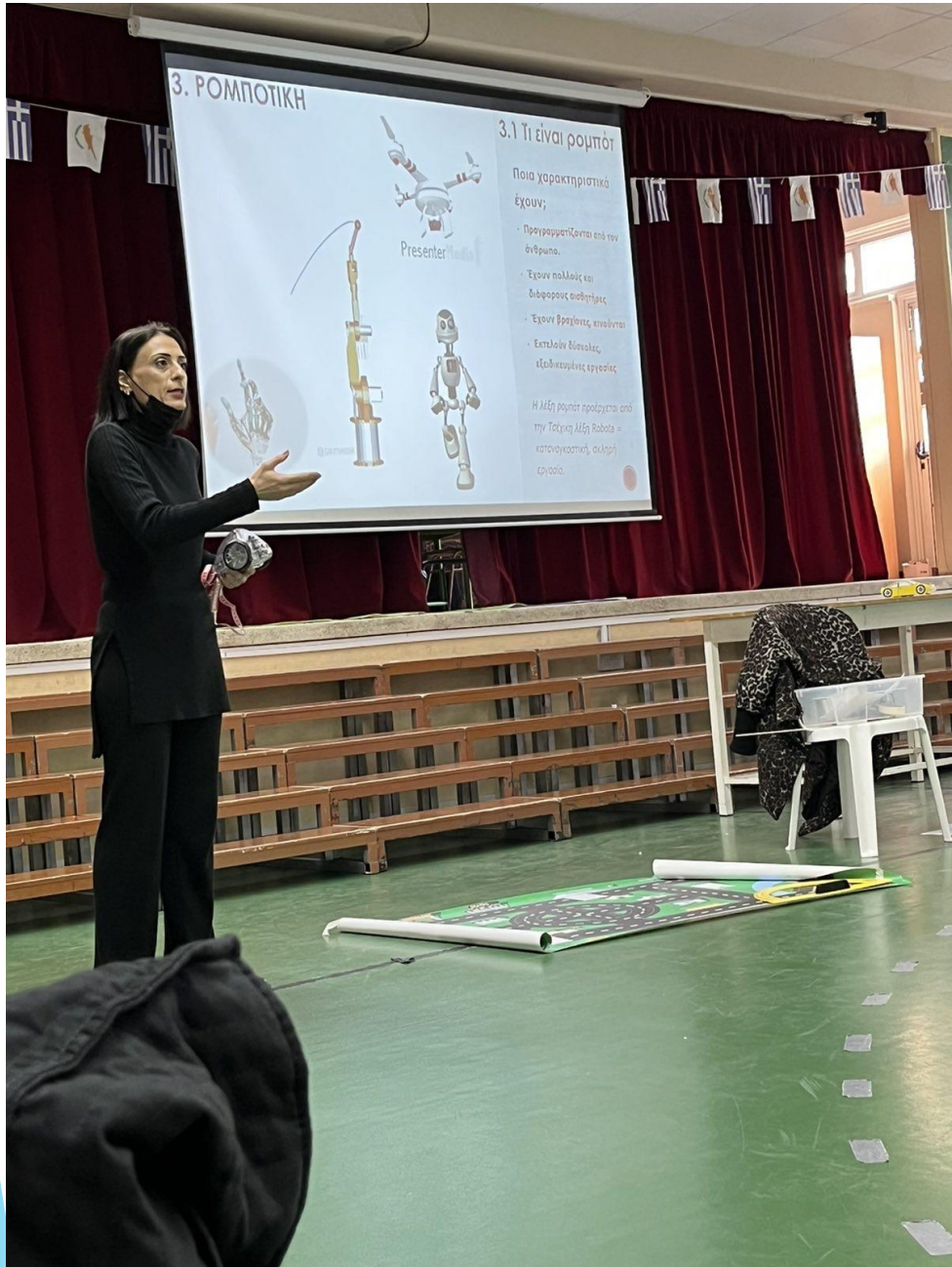


### [Unplugged Programming / Coding !!!](#)

Our colleague Eirini Petraki – Teacher Advisor of the Cyprus Pedagogical Institute in Design and Technology - presented in one of our personnel meetings what unplugged programming / Coding is and how we can use it in a classroom setting. Her presentation helped us take ownership and contribute to a better integration of this initiative in our school!











# Teaching with Bee-Bots in the Special Unit of our School

- ▶ Special Education Unit in a Mainstream Primary School.
- ▶ 5 students in autism spectrum, 1 teacher, 2 school assistants.



# Teaching with Bee-Bots.

- ▶ Learning objects:
  - ▶ Spatial orientation
  - ▶ Numbers' Sensory - Counting
  - ▶ Addition - Subtraction
  - ▶ Syllable awareness

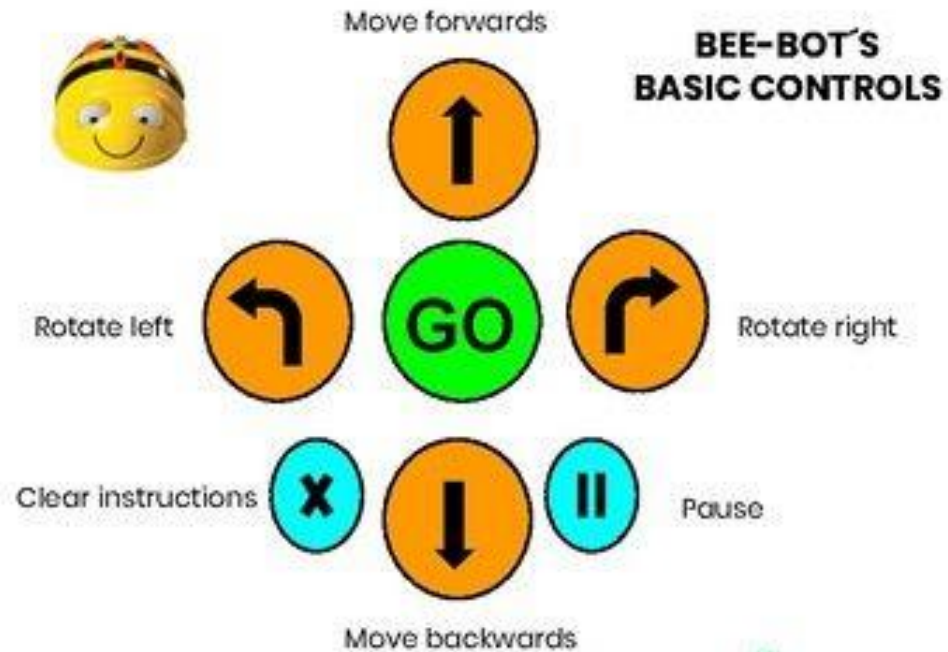
# Teaching with Bee-Bots.

- ▶ Step1:
  - ▶ Getting to know the bee-bot moves by playing a game.
  - ▶ A sequence of bee-bot moves was appeared on the whiteboard and each student should act like a robot and move in space accordingly.



# Teaching with Bee-Bots.

- ▶ Step 2:
  - ▶ Presentation of bee-bots. Explanation of the buttons on top.
  - ▶ Free play with bee-bots.



# Numbers' Sensory Activity - Counting

▶ Example:

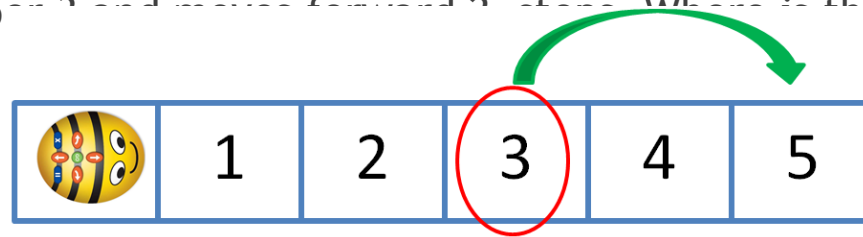
- ▶ The bee-bot has to move to number 3. So the student should press the “up” button 3 times.



# Addition-Subtraction

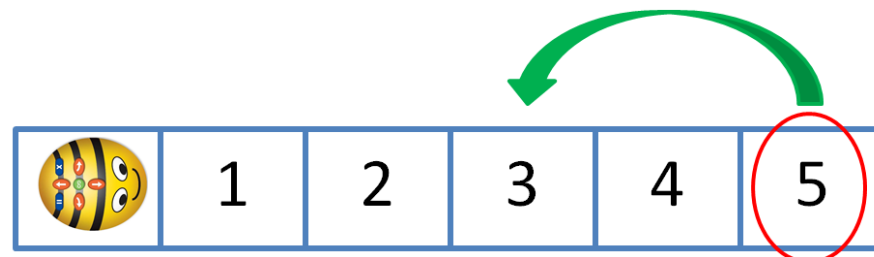
## ▶ Addition

- ▶ The bee-bot is at number 3 and moves forward 2 steps. Where is the bee-bot now?



## ▶ Subtraction

- ▶ The bee-bot is at number 5 and moves backward 2 steps. Where is the bee-bot now?



# Syllable awareness

- ▶ Words are broken into syllables and have been placed randomly on a surface of squares (15x15 as each bee-bot's step is 15cm).
- ▶ Each student should collect the syllables and put them in the right order to form the word.

