"Endemic plants and animals of Rhodes"

Interactive Posters with Augmented Reality via mobile devices based on image recognition

      The Rhodes Butterfly Center of Environmental Education in collaboration with the **University of the Aegean** and specifically with the **Laboratory of Learning Technology & Teaching Engineering**, supported by the **Region of N. Aegean** and the **Regional Plant Nursery** and the scientifically contribution of the Head-Agriculturist, Mr. Renesis Nikos, innovates in design and implementation of two interactive Augmented Reality posters on the theme of the endemic plants and animals of Rhodes. The project is ongoing, as it is constantly enriched with audio-visual material or the existing one is renewed.

      The Augmented Reality posters **aim** to enhance the learning and acquisition of knowledge by students of all education levels in the Dodecanese via technology, regarding the endemic animals and plants that live in the area. Learning becomes more attractive and significantly enriched by the use of technologies and specifically by the usage of Augmented Reality applications.

      Our **goal** is to continue the project by creating corresponding posters for all regions located in the South Aegean Sea.

      By the term "**Augmented Reality**" (AR), we are referring to the technological system that has the ability to combine or enhance the real world with digital information or three-dimensional objects using mobile devices (smartphone, tablet, etc.). This digital information or the objects give the impression that they coexist with the real world and interact in real time. (Azuma, 1997).

Instructions

Once the two interactive Augmented Reality (AR) posters are received, it is necessary to take some specific steps for proper usage.

Step 1: Must have a mobile device (smartphone, tablet, IOS, etc.).

https://www.google.com

Step 2: Must have an internet connection.

https://www.google.com

Step 3: Activate the internet connection and download the Blippar app on the mobile device.

https://www.google.com

Step 4: Once the application is downloaded, then open it by clicking on the icon.

Step 5: The code of the poster in use is required (can be found on the posters at the bottom left).
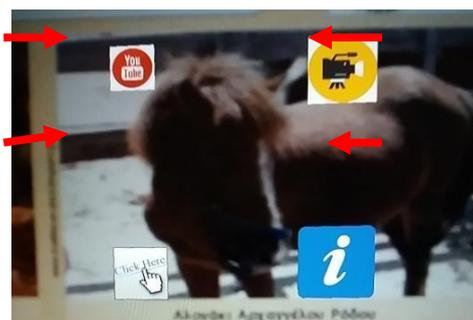

Plants = 2017

Animals = 2017

Step 6: Once the code of the poster in use is entered, target with the mobile device on the image to be recognized.

Step 7: Once the image is recognized, some icons appear. Select any icon to access the proper information.

Sincerely,
Pedagogical Team of Rhodes Butterfly Center of Environmental Education