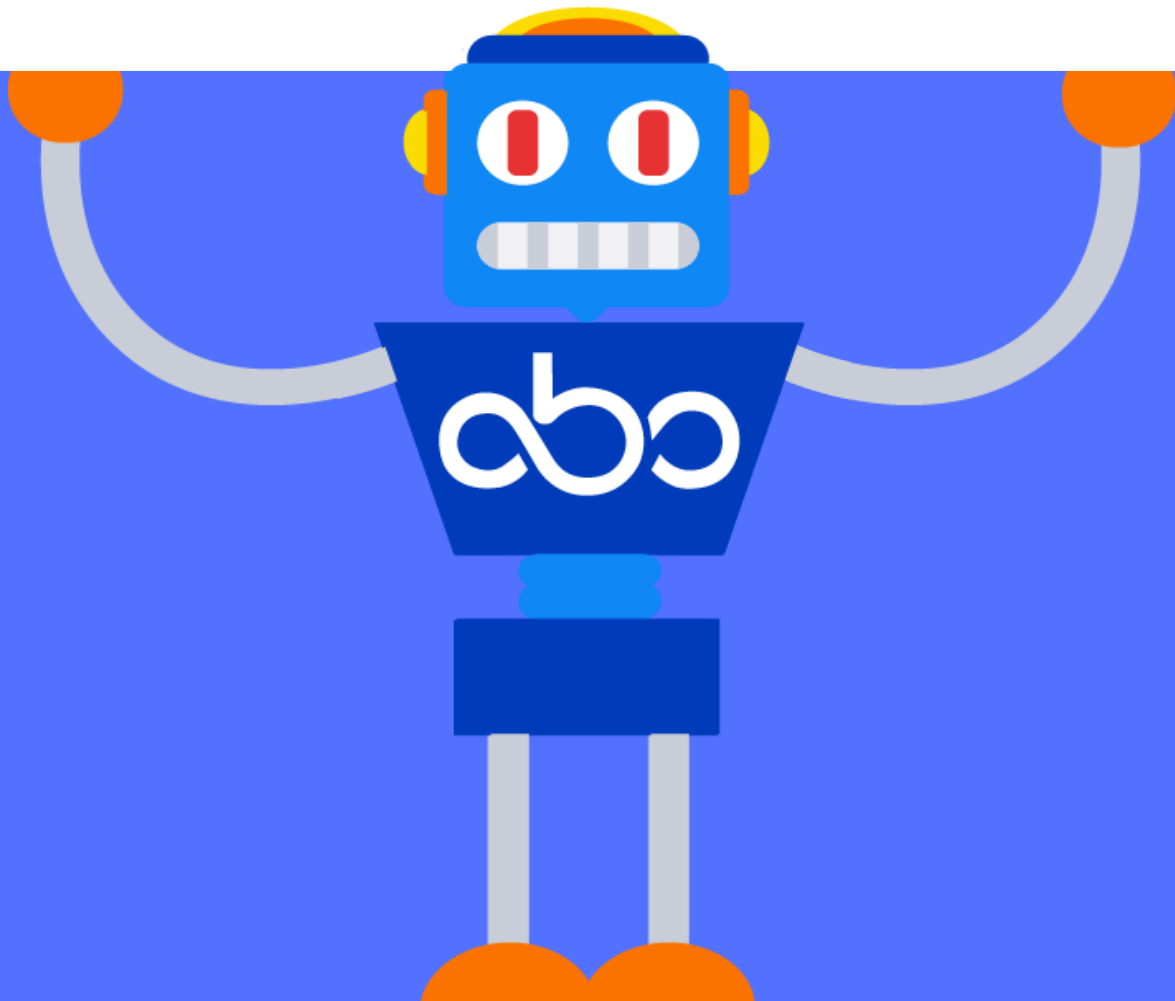


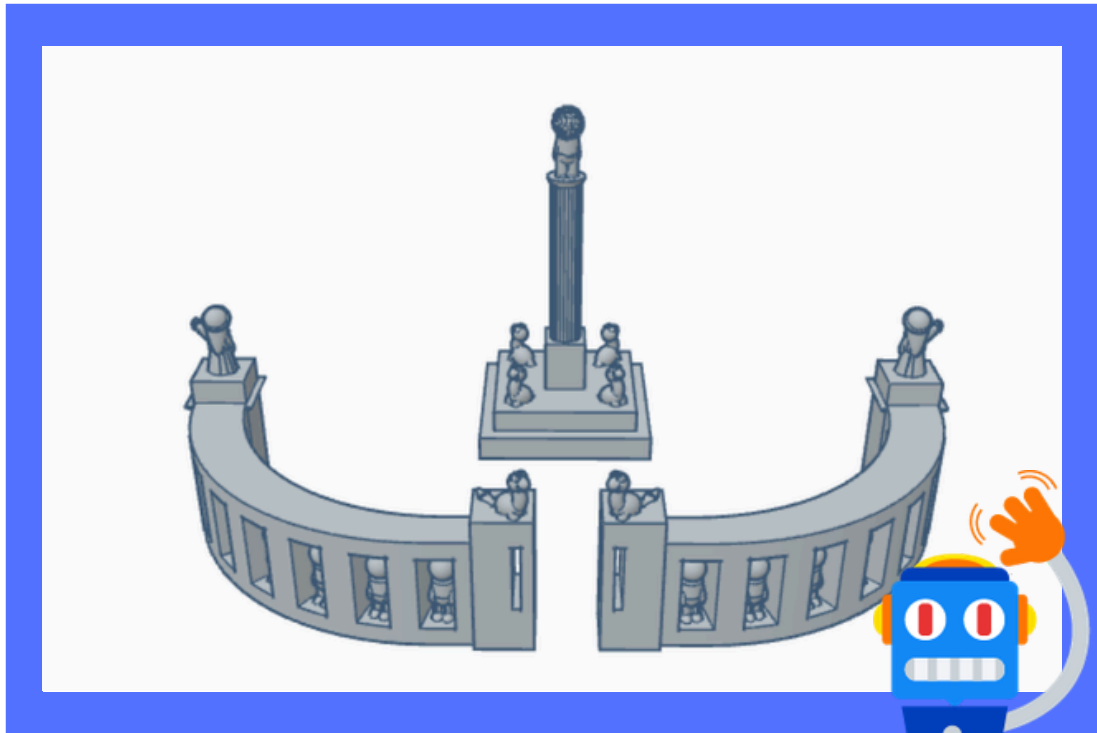


# **EU** **FOR** **ALL**

Using Sustainable Entrepreneurship to Rebuild European Heritage for  
Everyone



# EU FOR ALL



BUDAPEST · HUNGRÍA



## HEROE'S SQUARE HUNGARY





The resources of the EU FOR ALL project, including the materials kit, 3D models, and educational proposals, are undergoing continuous improvement. We are constantly working to incorporate new ideas, adjustments, and contributions from the participating teams. Therefore, both the documents and files may be reviewed and updated over time.

[www.euforall3dproject.com](http://www.euforall3dproject.com)

SUPPORTED BY:

**Erasmus+**  
Enriqueciendo vidas, abriendo mentes.



Cofinanciado por  
la Unión Europea

PARTNERS:



# 0 Table of contents

## 1. Warm up!

- Basic information about the region or city
- Cultural and social aspects
- Contextualization of the country in Europe

## 2. Investigation Phase

- Unplugged activities:
  - Location within the European Union
  - Reading comprehension
- Connected digital competence activities:
  - Explore virtual maps
  - Search and analyze cultural elements

## 3. Creative Phase

- Create a 2D draft using geometric shapes
- Image download and digital composition

## 4. Designing Phase

- Create a 3D design of the selected monument
- Prepare files and printing parameters
- Understand and adapt slicing settings

## 5. Presentation Phase

- Write a short travel guide-style script
- Record a video using a green background
- Add digital elements (e.g., postcard or virtual tour)
- Present your cultural itinerary

## 6. AI Integration Phase

- Write a prompt!
- Use an AI tool to generate a creative image
- Place it in the Alrt Museum frame
- Tell us about your artwork

## Terms of Use and Funding

- Licensing, credits, and Erasmus+ co-funding



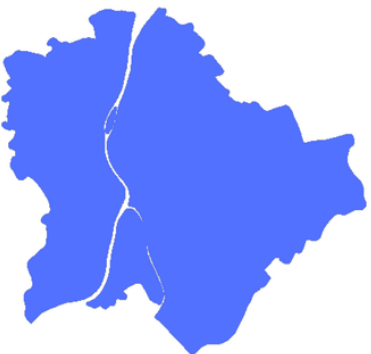


## 👁️ Hungary and its culture

### About Hungary

Hungary is a sovereign state in Central Europe. Its capital is Budapest. It borders Slovakia to the north, Ukraine to the east, Romania to the south, Serbia to the southwest, Croatia and Slovenia to the west, and Austria to the northwest.

Hungary was part of the Austro–Hungarian Empire until 1918, when it became an independent republic. After the communist regime, the country became a democratic republic in 1989. Hungary joined the European Union and NATO in 2004 and has experienced significant economic growth in recent decades.

<u>Map of Budapest</u>	<u>Geographic information</u>
	<ul style="list-style-type: none"> <li>• Capital: Budapest</li> <li>• Area: 93,030 km<sup>2</sup></li> <li>• Population: Approximately 9.7 million</li> <li>• Language: Hungarian</li> <li>• Currency: Hungarian Forint (HUF)</li> <li>• Climate: Continental, with cold winters and warm summers.</li> </ul>

### Culture

Hungary is known for its rich cultural heritage, which includes a blend of German, Slavic, and Ottoman influences. Hungarian folk music and dance are world-renowned, as well as its cuisine, with dishes such as goulash, pörkölt, and lángos. Hungary has also produced numerous notable composers and musicians, such as Franz Liszt and Béla Bartók.


### Other Interesting Facts

- **Festivities:** Hungary celebrates its national day on August 20th, known as St. Stephen's Day. Easter is also celebrated in grand style.
- **Heritage:** The country boasts several UNESCO World Heritage sites, including the Buda Castle District, Lake Hévíz, and the Aggtelek Caves.
- **Sports:** Football is very popular in Hungary, as well as water sports such as water polo, in which Hungarians have achieved significant international success.



## Let's look for it in the European Union.

Where is Hungary? Can you find it? Color it on the map and mark where the capital, Budapest, is located. Once you find it, mark the city's location with a colored dot.

 Marks the city of Budapest



## Reading Comprehension

Once you have read the information about Hungary, answer the following questions:

- Where is it located?
- What is its capital?
- What is its climate like?
- In which year did Hungary become an independent state?
- Does it have any UNESCO World Heritage sites? Which ones?



.....

.....

.....

.....

.....

.....

.....



### Virtual Tour in Budapest

Budapest is a city divided by the Danube River and has two areas: Buda and Pest. Could you find out which area the Heroe's Square is located in? Create an itinerary to visit at least three important monuments in the city, ending at the Heroe's Square.

- You may use the following applications: Google Maps, Wikipedia, etc.

Write your itinerary here



### Fun with Flags

Search for information about the flag of Hungary and write down the aspects that stand out to you the most.



The flag of Hungria...



### Look for some information about the building

- In what year was it built and by whom?
- Who are the heroes represented in the statues of the square?
- How many historical statues are there in Heroes' Square?
- What two important buildings surround the square?
- Can you find the exact coordinates of the building??

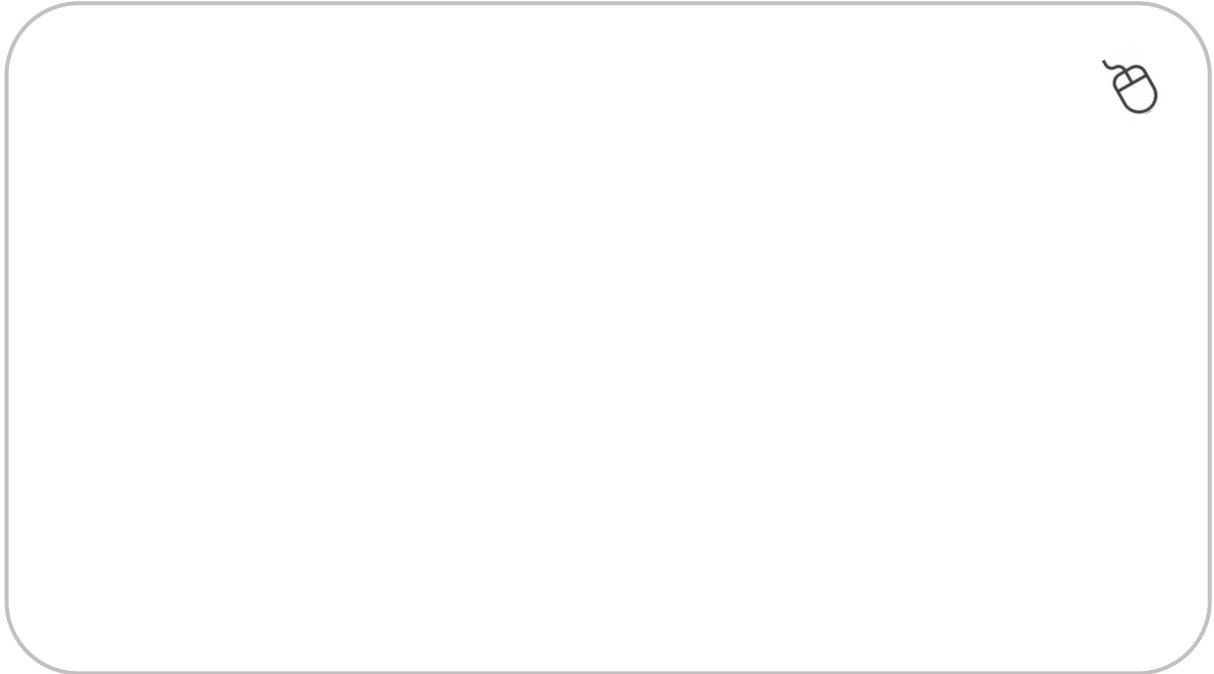
- It was made....

- .
- .
- .
- .
- .
- .

## Design test! Countdown!

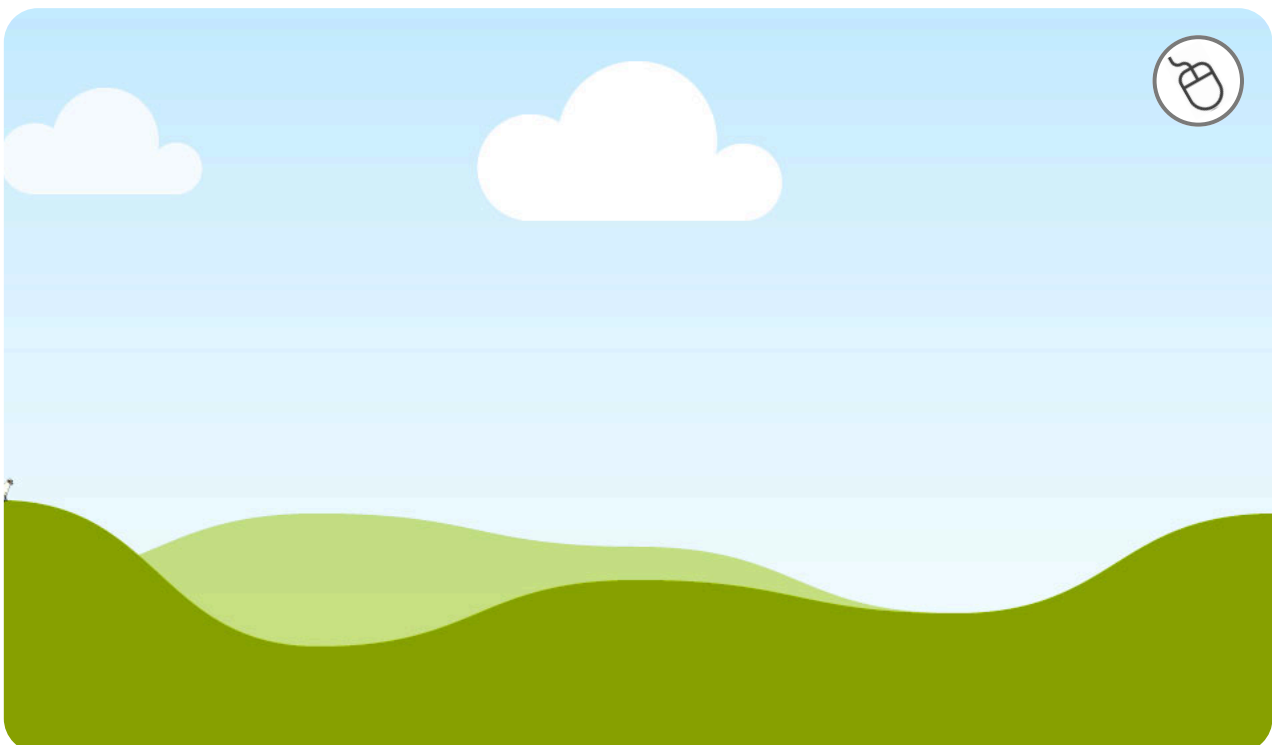
If you had to draw the Heroe's Square using basic geometric shapes, how would you do it? Remember not to add details. You have \_\_ : \_\_ minutes.

Geometric shapes



## Create your digital postcard!

Budapest is the capital of Hungary and is located in the center of the country. Could you find out which area the Heroe's Square is located in? Take a screenshot or find a photo of the monument, insert it in a frame, and create your Budapest postcard. You can use Google Earth or Google Maps.





## 3D Design of the building

Do you dare to design the Heroe's Square? Follow the instructions given in the tutorial video.

We recommend:

- Search for the monument on Google Earth.
- Download photos from different viewpoints.



Scan the QR code to watch the Heroe's Square tutorial video.

## Printing parameters

We've tested these designs with parameters that gave us great results using PLA as the material. That said, every 3D printer is different, so you might need to tweak some settings to achieve the best quality.

That's the wonderful (and sometimes frustrating) part of 3D printing! We encourage you to experiment and adapt the settings to your machine. If you improve the results, let us know!

Layer height	0.2	Walls	2
Speed	180 mm/s	Top/Bottom Layers	4/3
Temperature	190 <sup>a</sup> - 210 <sup>a</sup>	Travel Speed	280 mm/a
Infill	15%	Bed adhesion	No

It's important to consider factors such as whether your printer requires supports for certain parts of the model, how it handles bridging, and other details that may vary depending on your machine and the slicer you use.



## 📺 Create your video about Hungary

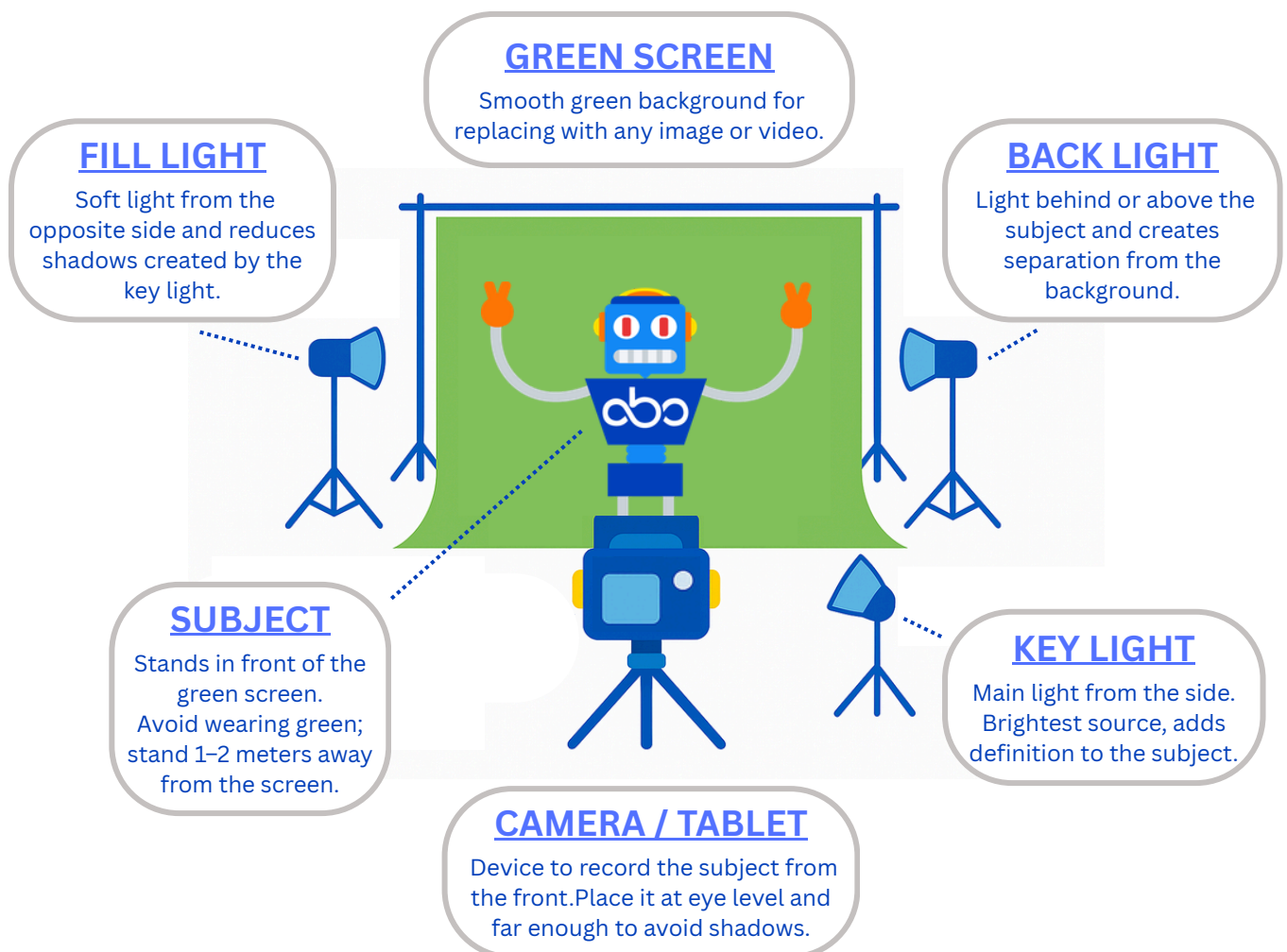
Create a **short video** where you present your virtual tour itinerary of the country you studied, using a **green screen background**.... What do you have to do?

- Think about the **route** you created in your “Virtual Tour” activity.
- Write a **short script** as if you were a travel guide or presenter. Example:

*“Hi, I’m [Name] and welcome to our tour in [Country]! Today we’ll visit three amazing places. We start in... and finish in...”*

- Use a **green wall, a simple colored background** or a green cloth.
- **Record your video** using a tablet or smartphone.
- Add your **digital postcard** or **background image** using CapCu or OBS Studio
- **Share your video** with your class and with us at [www.euforall3d.com](http://www.euforall3d.com)!

[This is how you should set up your green screen to record your video correctly!](#)





## Let's learn how to use artificial intelligence

**Design a creative image** using artificial intelligence, based on what you've learned about the country. Your artwork will be part of our European Digital Alrt Museum! What do you have to do?

- **Think about what you've discovered:** monuments, traditional clothes, nature, legends, people, food...
- **Imagine a picture** that shows all that. It can be real, magical... or both!
- **Write a prompt** to tell the AI what to create.

### What is a prompt?

A prompt is a sentence or idea you give to an AI image tool. It helps the tool understand exactly what kind of picture you want. The more creative and clear you are, the better the image will be!

### Example:

"A child in traditional [Country] clothes standing in front of a magical castle .....during a festival with fireworks."

- **Use an AI tool** like Deep AI or Canva AI to create your image.
- Save or print your artwork and place it in the special frame for our *European Digital Alrt Museum*.
- **Give your image a title and write one short sentence** explaining what it shows.



## Add the title

My artwork represents a....

**Please provide the title of the work, the artist's full name, country of origin, and age**

**My artwork represents a....**



**Share your artwork at the European Digital Art Museum: [www.euforall3d.com](http://www.euforall3d.com)**

# Terms of Use and Funding

The educational materials developed within the framework of the **EU FOR ALL** project, led by the consortium of **OBO - We Teach Robotics**, have been designed to **promote digital inclusion and technological literacy**.



These materials aim to provide accessible and engaging learning experiences that foster key competencies in digital skills, problem-solving, and critical thinking. Through interactive and hands-on approaches, **the project seeks to empower learners of all backgrounds** by equipping them with the necessary tools to navigate an increasingly digital world.

Developed in collaboration with experts in education, technology, and inclusion, these resources reflect the commitment of the **EU FOR ALL** consortium to innovation in education and the reduction of the digital divide.

## **Creative Commons License**

The educational materials developed within this project are licensed under Creative Commons – Attribution, Non-Commercial, ShareAlike (BY-NC-SA EU).

This means they can be freely used, shared, and adapted, as long as:

- Proper credit is given to the authors and the project.
- They are not used for commercial purposes.
- They are shared under the same license.



For more information about this license, visit [Creative Commons website](https://creativecommons.org/licenses/by-nc-sa/4.0/).

## **Disclaimer of Liability Clause**

This project has been **co-funded by the Erasmus+ Programme of the European Union**. The content of these educational materials is the sole responsibility of the **EU FOR ALL** consortium, and neither the European Commission nor the Spanish **Service for the Internationalization of Education (SEPIE)** can be held responsible for any use that may be made of the information contained herein.

## **Co-financing Emblem**

This material has been developed within the framework of the **Erasmus+ Programme** and has received co-funding from the European Union.



**Co-funded by  
the European Union**