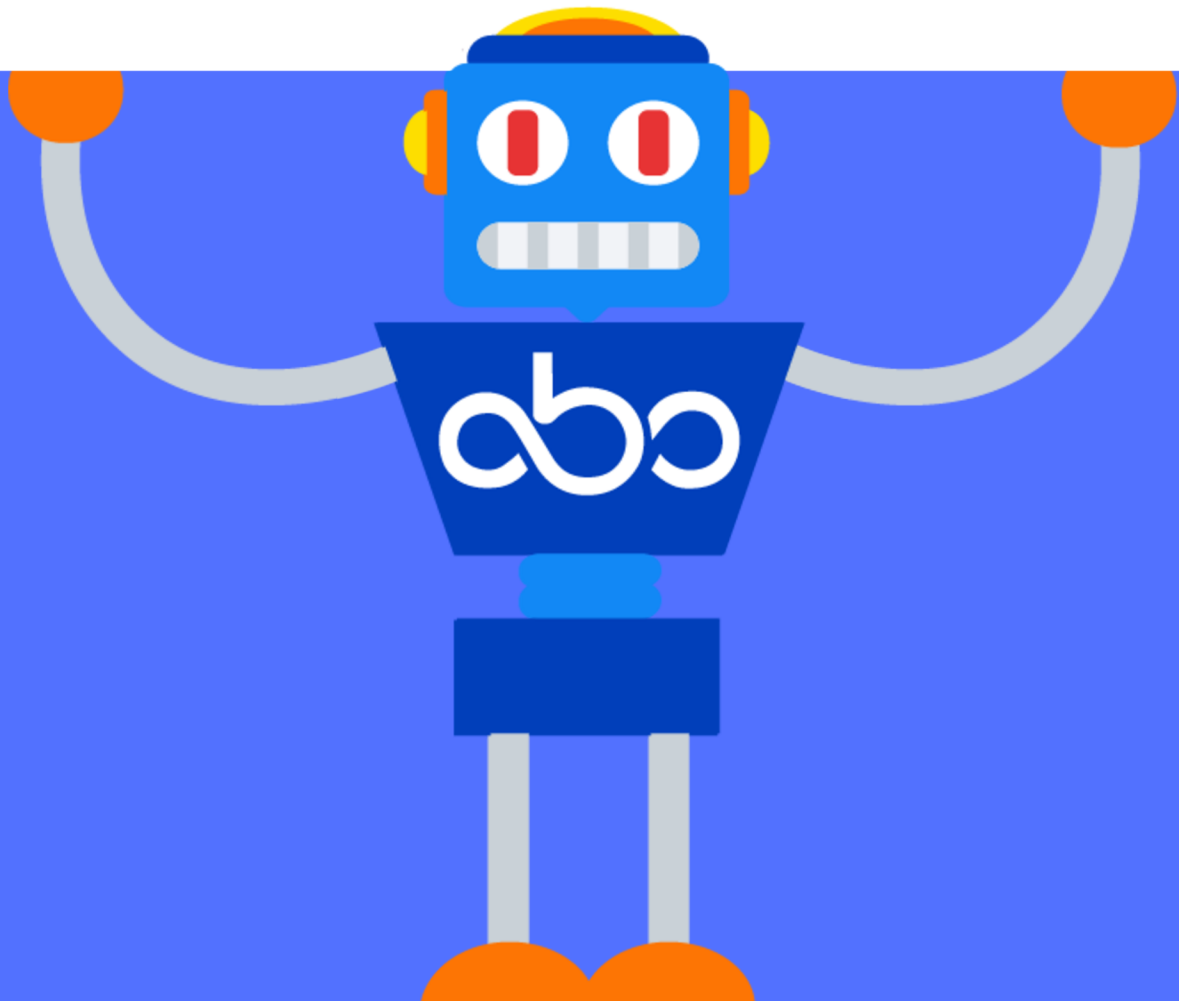
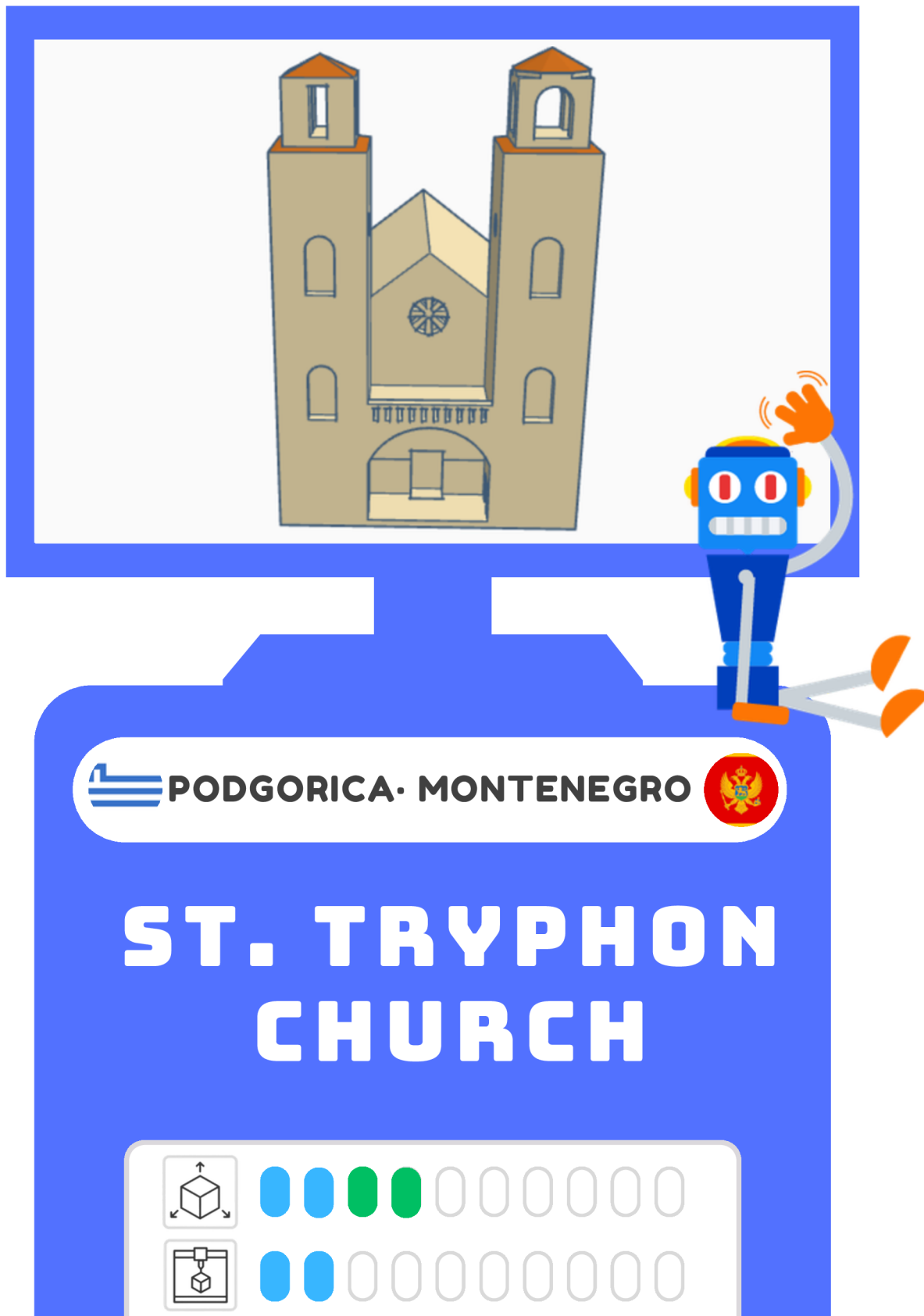




EU FOR ALL

Using Sustainable Entrepreneurship to Rebuild European Heritage for Everyone





 **PODGORICA · MONTENEGRO** 

ST. TRYPHON CHURCH





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

SUPPORTED BY:

Erasmus+
Enriqueciendo vidas, abriendo mentes.



Cofinanciado por
la Unión Europea

The EU FOR ALL project is co-funded by the European Union. The views and opinions expressed in this publication are those of the author(s) only (Interobotics para humanos SL, on behalf of the EU FOR ALL consortium) and do not necessarily reflect those of the European Union or the Spanish Service for the Internationalisation of Education (SEPIE). Neither the European Union nor SEPIE can be held responsible for them.

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





👁 Montenegro and its culture

About Montenegro

Montenegro is one of the sovereign states in Europe. Its capital is Podgorica. Located in the southeastern part of the continent, in the Balkans region, it has access to the Adriatic Sea. It borders Croatia to the west, Bosnia and Herzegovina to the northwest, Serbia to the northeast, Kosovo to the east, and Albania to the south.

Montenegro proclaimed its independence in 2006, after separating from the state union with Serbia. In 2017, it became a member of NATO and is currently an official candidate to join the European Union, reflecting its interest in strengthening ties with Europe.

Map of Podgorica	Geographical information
	• Capital: Podgorica • Area: 13,812 km² • Population: Approximately 620,000 inhabitants • Official language: Montenegrin • Currency: Euro (EUR) • Climate: The climate in Montenegro is Mediterranean on the coast, with hot summers and mild winters; inland, it is continental, with cold winters and milder summers.

Culture

In Montenegro, the traditional attire varies by region, but it typically includes bright colors, embroidery, and elements that reflect the Balkan cultural heritage. Women usually wear long dresses with embroidered aprons, decorated blouses, and headscarves. Men wear white shirts, dark vests with golden details, loose trousers, and a traditional hat called a kapa. These outfits are mainly worn during folk celebrations and national festivals.

In Montenegrin cuisine, čevapi is a typical dish, a small minced meat sausage served with flatbread and onion. Another popular dish is kačamak, made with cornmeal, potatoes, and cheese.

Other interesting facts

- **Festivals:** One of the main holidays in Montenegro is Independence Day (May 21), which celebrates the country's independence from Serbia in 2006. Orthodox celebrations such as Christmas and Easter are also important.
- **Heritage:** The Historic Center of Kotor, a UNESCO World Heritage site, and the Ostrog Monastery, an important Orthodox sanctuary, are notable landmarks.
- **Sports:** Football is the most popular sport, but water polo is where Montenegro has achieved the greatest international success.

 Let's search for it in the European Union.

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

 Mark the city of Podgorica
 **Reading comprehension.**

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

- What countries border Montenegro?
- What is the capital of Montenegro?
- What ingredients are used in its most typical dish? What is it called?
- When is its most popular holiday celebrated? What is being celebrated?
- Which place in Montenegro is considered a UNESCO World Heritage site?





Virtual tour of Podgorica

Podgorica is the capital of Montenegro and is located in the central region of the country, on the banks of the Morača River. The city is divided into several areas, with the old town being the most well-known, famous for its architecture and proximity to historical monuments. Could you find out in which area the Church of Saint Trifun is located? Create an itinerary to visit at least 3 important monuments in the city, ending at the Cathedral of the Resurrection of Christ.

- You can use the following apps: Google Maps, Wikipedia, etc.

Write your itinerary here



Fun with Flags

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



The flag of Montenegro...



Search for information about the church.

- In what year was it built and who founded it?
- What is its historical significance?
- What does it symbolize?
- How tall is it?
- Can you find its exact coordinates

• It was built by...

-
-
-
-
-

3

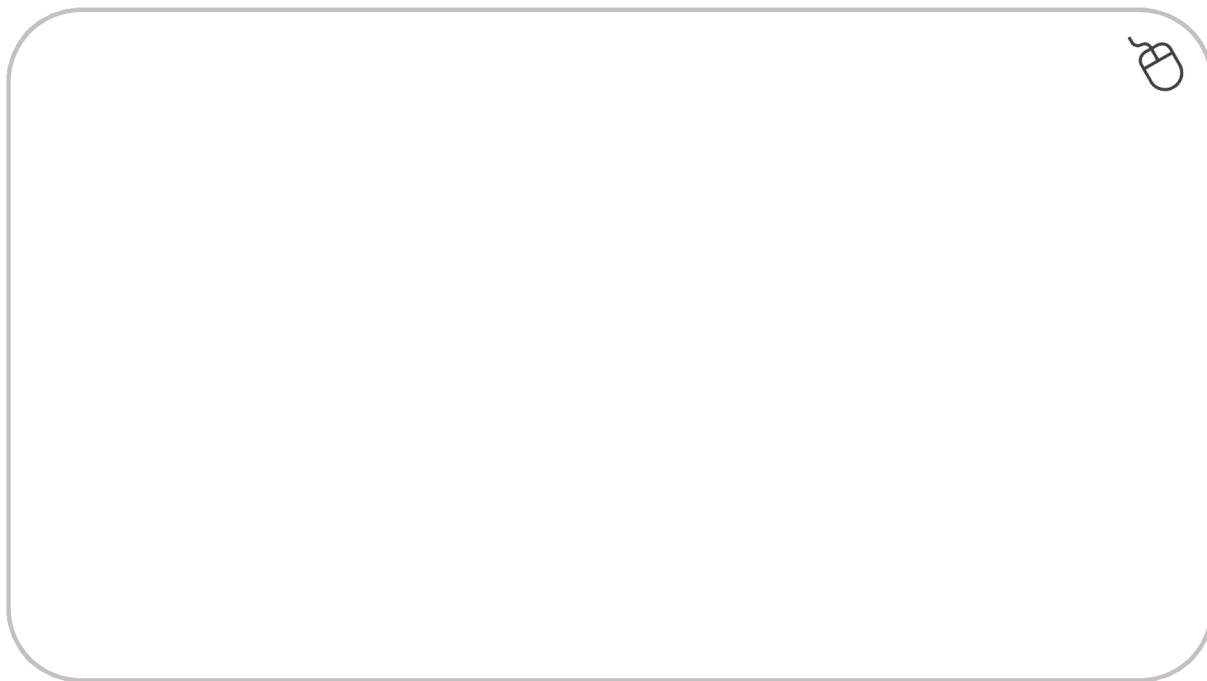
Creative phase



🕒 Design test - Countdown!

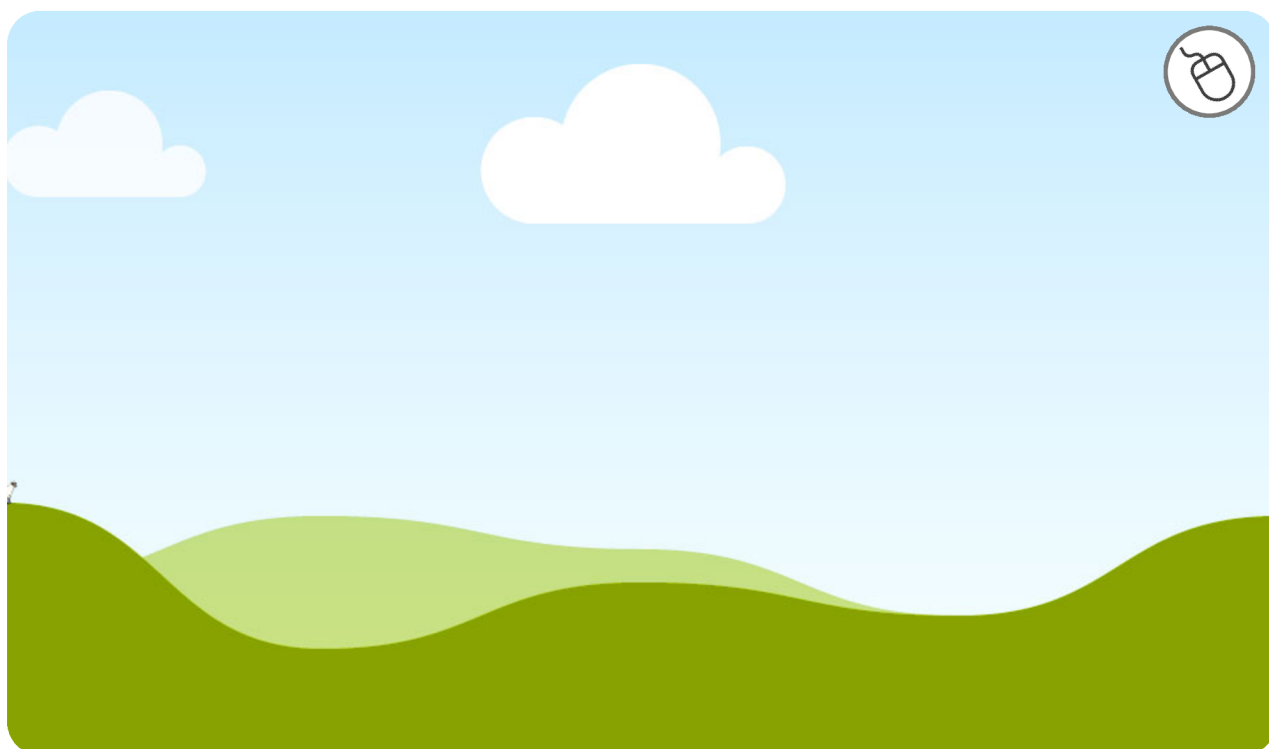
If you had to draw the Church of St. Tryphon using basic geometric shapes, how would you do it? Remember not to add details. You have __:__ minutes.

geometric
shapes.



Create your digital postcard!

Podgorica is the capital of Montenegro and is located in the center of the country, on the banks of the Morača River. Can you find which area the Church of St. Tryphon is located in? Take a screenshot or find a photo of the tower, insert it into the frame, and create your postcard of Podgorica. You can use Google Earth or Google Maps.



EU FOR ALL





3D Design of the Building

Dare to design the Church of St. Tryphon? Follow the instructions we provide in the video tutorial.

We recommend:

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



Scan the QR code to watch the San Trifón Church video tutorial.

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 mm	Walls	2
Speed	270 mm/s	Top/Bottom Layers	4/3
Temperature	190°C - 210°C	Travel Speed	350 mm/s
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 Slovenia

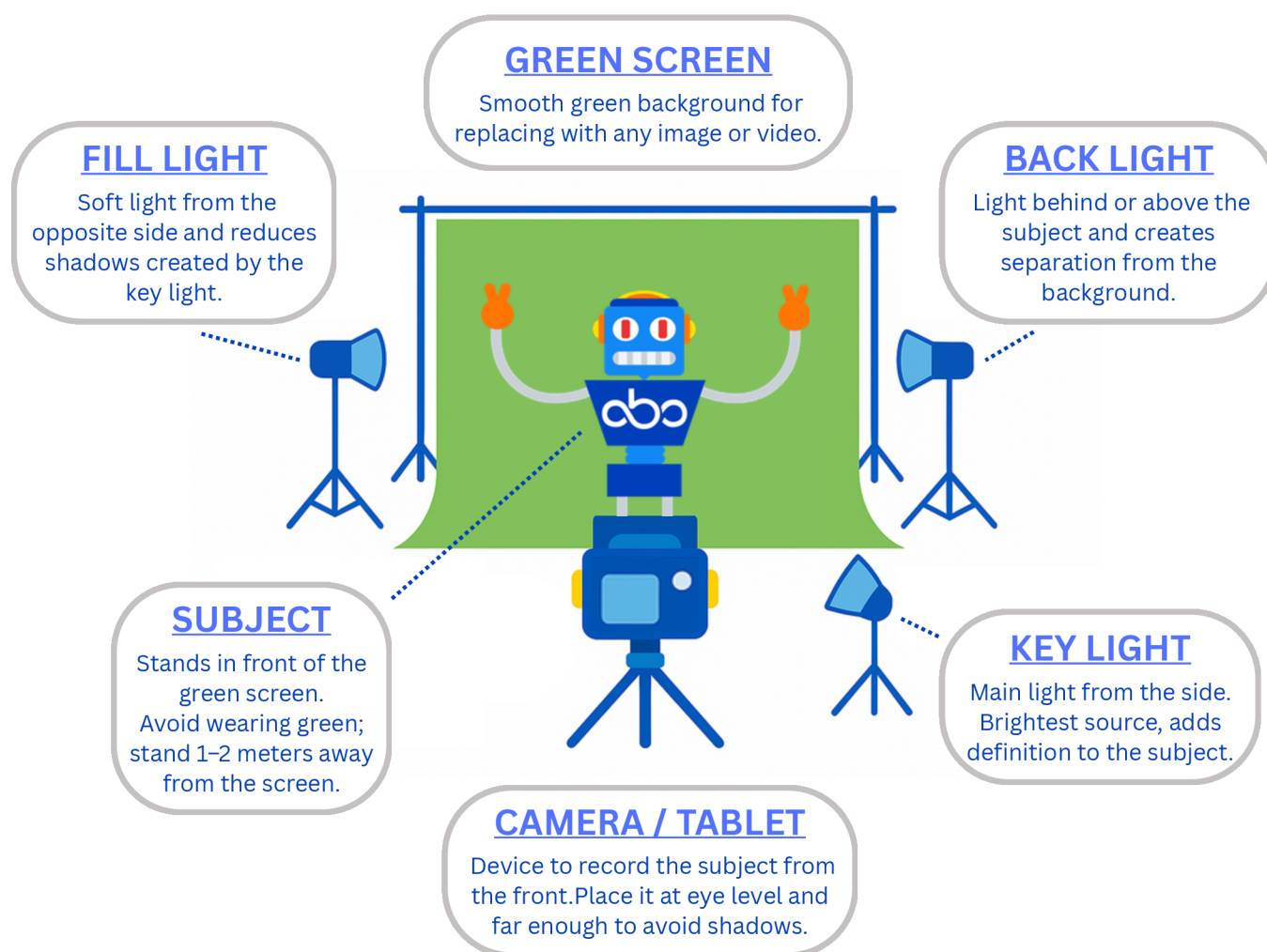
Create a **short video** where you present your virtual tour itinerary of the country you studied, using a **green screen background**.... What do you have to do?

- **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!

[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 castleduring 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....

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

The EU FOR ALL project is co-funded by the European Union. The views and opinions expressed in this publication are those of the author(s) only (Interrobotics para humanos SL, on behalf of the EU FOR ALL consortium) and do not necessarily reflect those of the European Union or the Spanish Service for the Internationalisation of Education (SEPIE). Neither the European Union nor SEPIE can be held responsible for them.

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**