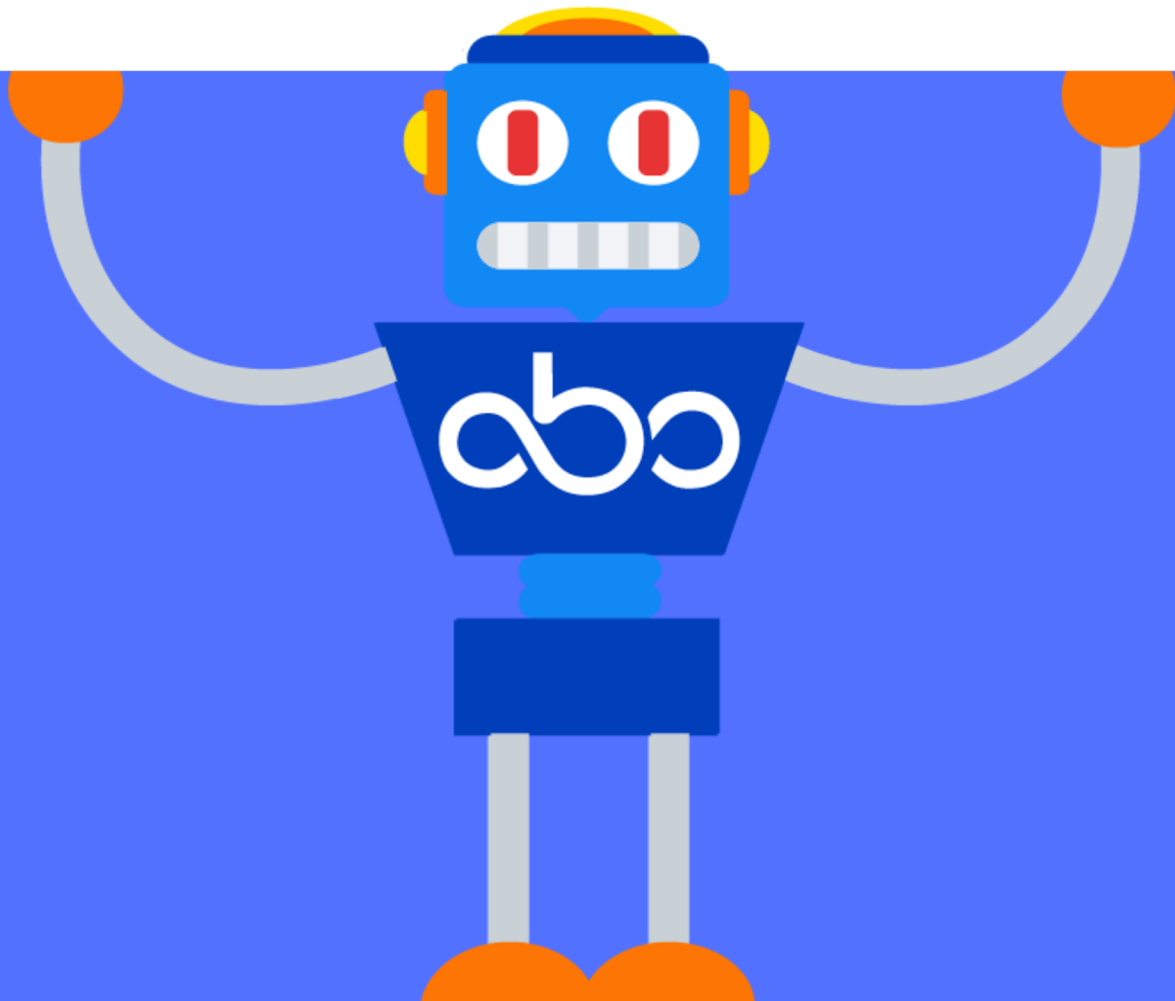




EU **FOR** **ALL**

Using Sustainable Entrepreneurship to Rebuild European Heritage for
Everyone





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

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PARTNERS:



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 - Search and analyze cultural elements

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- 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

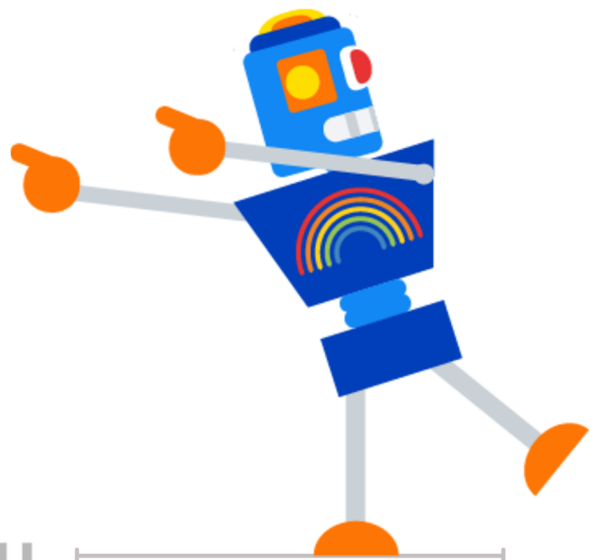
- Write a short travel guide-style script
- Record a video using a green background
- Add digital elements (e.g., postcard or virtual tour)
- Present your cultural itinerary

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






👁️ Macedonia and its culture

About Macedonia

North Macedonia is one of the sovereign states of Europe. Its capital is Skopje. Located in the southeastern region of Europe, it is part of the Balkan Peninsula. It borders Serbia and Kosovo to the north, Bulgaria to the east, Greece to the south, and Albania to the west.

North Macedonia declared its independence in 1991 after the dissolution of the former Yugoslavia. In 2020, the country joined NATO, consolidating its political and military position in Europe. It is currently an official candidate to join the European Union.

<u>Map of Skopje</u>	<u>Geographic information</u>
	<ul style="list-style-type: none"> • Capital: Skopje • Area: 25,713 km² • Population: 2.1 million • Official language: Macedonian • Currency: Macedonian Denar (MKD) • Climate: The climate in North Macedonia is continental, with cold, snowy winters and hot, dry summers, especially in the inland and mountainous areas.

Culture

In Macedonia, the traditional costume varies by region, but they generally wear the "nosija." Women typically wear long, colorful dresses with detailed embroidery and headscarves. Men wear linen shirts with embroidery, woolen pants, and often a wide belt called "opasa." They also commonly wear traditional hats, such as the "kapu" or "fez."


As for the cuisine, one of the most typical dishes is "tavče gravče," a dish made with beans cooked with onions, peppers, and spices.

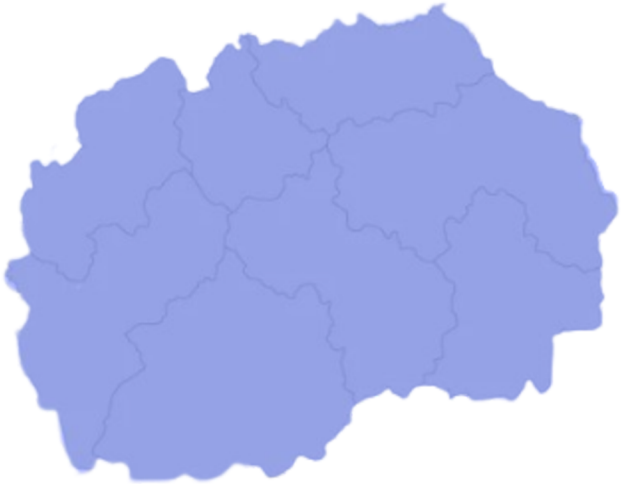
Other Interesting Facts

- **Festivals:** One of the most important festivals is Ilinden, celebrated on August 2nd. During this festival, parades, folk dances, and events are held in remembrance of the struggle for independence.
- **Heritage:** Macedonia has UNESCO World Heritage sites, such as the Monastery of Saint Naum and the churches of Ohrid.
- **Sports:** Football is the most popular sport, followed by basketball, wrestling, and water polo, with international successes in these disciplines.

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


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

 Marks the city of Skopje

 **Reading Comprehension**

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

- What language do they speak in Macedonia?
- What is the currency they use?
- What ingredients are used in their most typical dish? What is it called?
- When is their most popular festival celebrated? What is celebrated?
- What is the most popular sport in the country?



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🔍 Virtual Tour in Skopje

Skopje is the capital of North Macedonia and is located on the banks of the Vardar River. The city is made up of several areas, with the historic center being the most prominent. Could you find out in which area the Stone Bridge is located? Create an itinerary to visit at least 3 important monuments in the city and finish at the Stone Bridge.

- You can use applications like Google Maps, Wikipedia, etc.

Write your itinerary here



🔍 Fun with Flags

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



The flag of Macedonia...



🔍 Look for some information about the building

- In what year was it built and by whom?
- Which river does the bridge cross?
- What two places does it connect?
- How many meters long is it?
- Can you find the exact coordinates of the building?

- It was built by...
-
-
-
-
-



🕒 Design test! Countdown!

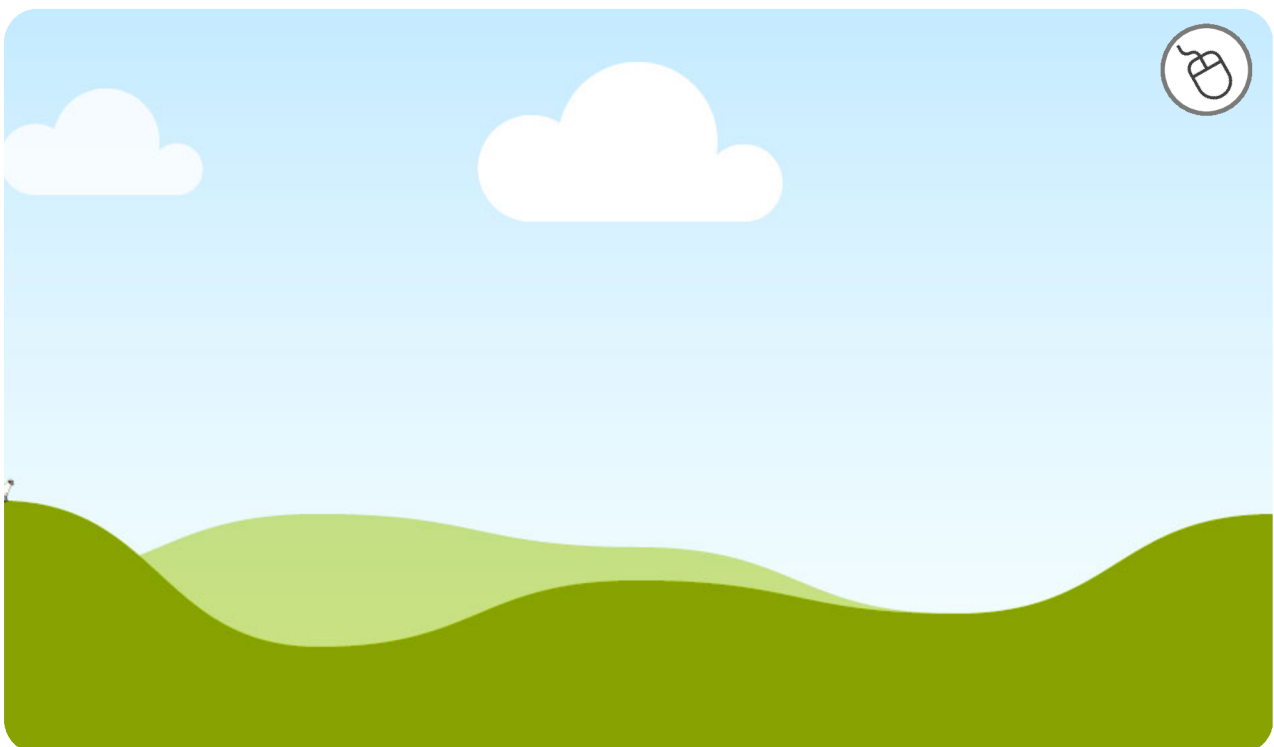
If you had to draw the Stone Bridge using basic geometric shapes, how would you do it? Remember not to add details. You have __ : __ minutes.

Geometric shapes



🌟 Create your digital postcard!

Skopje is the capital of North Macedonia and is located on the banks of the Vardar River. Could you find out which area the Stone Bridge is located in? Take a screenshot or find a photo of the monument, insert it into a frame, and create your Skopje postcard. You can use: Google Earth or Google Maps.



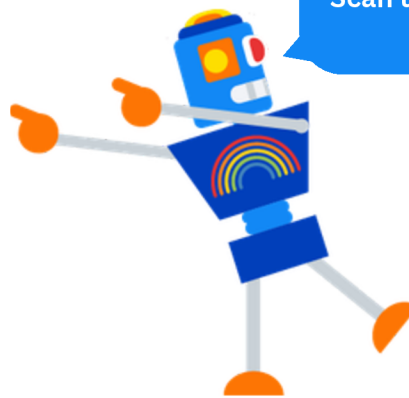


3D Design of the building

Do you dare to design the Stone Bridge? 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 Stone Bridge 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	200 mm /s	Top/Bottom Layers	4/3
Temperature	190° - 210°	Travel Speed	300 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

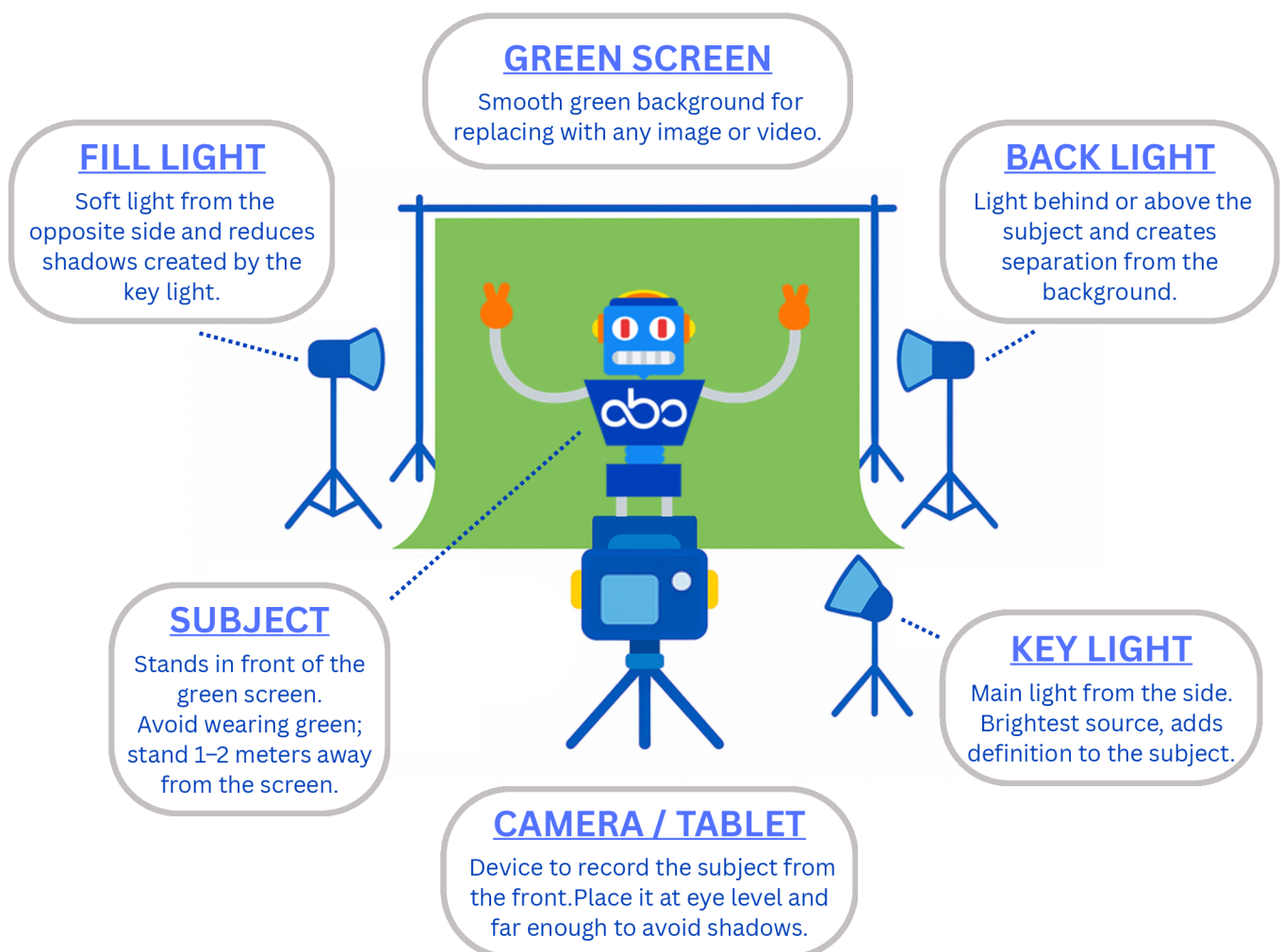
Create a **short video** where you present your virtual tour itinerary of the country you studied, using a **green screen background**.... What do you have to do?

- 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....

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

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.

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